

GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on: June 30, 2006, 14:01:44 ; Search time 33 Seconds
(without alignments)
3.446 Million cell updates/sec

Title: US-10-798-090A-305
Perfect score: 1773
Sequence: 1 augaccugcacacaacagc.....cacccgagcgccuugag 1773

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

Searched: 1605 seqs, 32073 residues

Total number of hits satisfying chosen parameters: 3210

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1607 summaries

Database : rnpbm.subdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	32.2	1.8	37	1	US-09-826-509-279 Sequence 279, App
2	32.2	1.8	37	1	US-09-826-509-280 Sequence 280, App
3	32.2	1.8	37	1	US-10-925-095-279 Sequence 279, App
4	32.2	1.8	37	1	US-10-925-095-280 Sequence 280, App
5	26	1.5	32	1	US-09-826-509-79 Sequence 79, App1
6	26	1.5	32	1	US-10-925-095-79 Sequence 79, App1
7	25	1.4	25	1	US-10-719-956-108327 Sequence 108327, App1
8	25	1.4	25	1	US-11-060-756-32251 Sequence 32251, A
9	25	1.4	25	1	US-11-060-756-32252 Sequence 32252, A
10	25	1.4	25	1	US-11-060-756-32253 Sequence 32253, A
11	25	1.4	25	1	US-11-060-756-32254 Sequence 32254, A
12	25	1.4	25	1	US-11-060-756-32255 Sequence 32255, A
13	25	1.4	25	1	US-11-060-756-32256 Sequence 32256, A
14	25	1.4	25	1	US-11-060-756-32257 Sequence 32257, A
15	25	1.4	25	1	US-11-060-756-32258 Sequence 32258, A
16	25	1.4	25	1	US-11-060-756-32259 Sequence 32259, A
17	25	1.4	25	1	US-11-060-756-32260 Sequence 32260, A
18	25	1.4	25	1	US-11-060-756-32261 Sequence 32261, A
19	25	1.4	25	1	US-11-060-756-32262 Sequence 32262, A
20	25	1.4	25	1	US-11-060-756-32263 Sequence 32263, A
21	25	1.4	25	1	US-11-060-756-32264 Sequence 32264, A
22	25	1.4	25	1	US-11-060-756-32265 Sequence 32265, A
23	25	1.4	25	1	US-11-060-756-32266 Sequence 32266, A
24	25	1.4	25	1	US-11-060-756-32267 Sequence 32267, A
25	25	1.4	25	1	US-11-060-756-32268 Sequence 32268, A
26	25	1.4	25	1	US-11-060-756-32269 Sequence 32269, A
27	25	1.4	25	1	US-11-060-756-32270 Sequence 32270, A
28	25	1.4	25	1	US-11-060-756-32271 Sequence 32271, A
29	25	1.4	25	1	US-11-060-756-32272 Sequence 32272, A
30	25	1.4	25	1	US-11-060-756-32273 Sequence 32273, A
31	25	1.4	25	1	US-11-060-756-32274 Sequence 32274, A
32	25	1.4	25	1	US-11-060-756-32275 Sequence 32275, A
33	25	1.4	25	1	US-11-060-756-32276 Sequence 32276, A

34	25	1.4	25	1	US-11-060-756-32277 Sequence 32277, A
35	25	1.4	25	1	US-11-060-756-32278 Sequence 32278, A
36	25	1.4	25	1	US-11-060-756-32279 Sequence 32279, A
37	25	1.4	25	1	US-11-060-756-32280 Sequence 32280, A
38	25	1.4	25	1	US-11-060-756-32281 Sequence 32281, A
39	25	1.4	25	1	US-11-060-756-32282 Sequence 32282, A
40	25	1.4	25	1	US-11-060-756-32283 Sequence 32283, A
41	25	1.4	25	1	US-11-060-756-32284 Sequence 32284, A
42	25	1.4	25	1	US-11-060-756-32285 Sequence 32285, A
43	25	1.4	25	1	US-11-060-756-32286 Sequence 32286, A
44	25	1.4	25	1	US-11-060-756-32287 Sequence 32287, A
45	25	1.4	25	1	US-11-060-756-32288 Sequence 32288, A
46	25	1.4	25	1	US-11-060-756-32289 Sequence 32289, A
47	25	1.4	25	1	US-11-060-756-32290 Sequence 32290, A
48	25	1.4	25	1	US-11-060-756-32291 Sequence 32291, A
49	25	1.4	25	1	US-11-060-756-32292 Sequence 32292, A
50	25	1.4	25	1	US-11-060-756-32293 Sequence 32293, A
51	25	1.4	25	1	US-11-060-756-32294 Sequence 32294, A
52	25	1.4	25	1	US-11-060-756-128746 Sequence 128746, A
53	25	1.4	25	1	US-11-060-756-131616 Sequence 131616, A
54	25	1.4	25	1	US-11-060-756-132080 Sequence 132080, A
55	25	1.4	25	1	US-11-060-756-134169 Sequence 134169, A
56	25	1.4	25	1	US-11-060-756-137147 Sequence 137147, A
57	25	1.4	25	1	US-11-060-756-151173 Sequence 151173, A
58	25	1.4	25	1	US-11-060-756-151519 Sequence 151519, A
59	25	1.4	25	1	US-11-060-756-164907 Sequence 164907, A
60	25	1.4	25	1	US-11-060-756-167980 Sequence 167980, A
61	25	1.4	25	1	US-11-060-756-169202 Sequence 169202, A
62	25	1.4	25	1	US-11-060-756-171665 Sequence 171665, A
63	25	1.4	25	1	US-11-060-756-175922 Sequence 175922, A
64	25	1.4	25	1	US-11-060-756-177330 Sequence 177330, A
65	25	1.4	25	1	US-11-060-756-180404 Sequence 180404, A
66	25	1.4	25	1	US-11-060-756-180430 Sequence 180430, A
67	25	1.4	25	1	US-11-060-756-187203 Sequence 187203, A
68	25	1.4	25	1	US-11-060-756-192377 Sequence 192377, A
69	25	1.4	25	1	US-11-060-756-195459 Sequence 195459, A
70	25	1.4	25	1	US-11-060-756-199924 Sequence 199924, A
71	25	1.4	25	1	US-11-060-756-204803 Sequence 204803, A
72	25	1.4	25	1	US-11-060-756-208188 Sequence 208188, A
73	25	1.4	25	1	US-11-060-756-212969 Sequence 212969, A
74	25	1.4	25	1	US-11-060-756-215815 Sequence 215815, A
75	25	1.4	25	1	US-11-060-756-217281 Sequence 217281, A
76	25	1.4	25	1	US-11-060-756-222429 Sequence 222429, A
77	25	1.4	25	1	US-11-060-756-222779 Sequence 222779, A
78	25	1.4	25	1	US-11-060-756-224536 Sequence 224536, A
79	25	1.4	25	1	US-11-060-756-225840 Sequence 225840, A
80	25	1.4	25	1	US-11-060-756-227514 Sequence 227514, A
81	25	1.4	25	1	US-11-060-756-236709 Sequence 236709, A
82	25	1.4	25	1	US-11-060-756-238998 Sequence 238998, A
83	25	1.4	25	1	US-11-060-756-243420 Sequence 243420, A
84	25	1.4	25	1	US-11-060-756-244727 Sequence 244727, A
85	25	1.4	25	1	US-11-060-756-254556 Sequence 254556, A
86	25	1.4	25	1	US-11-060-756-257044 Sequence 257044, A
87	25	1.4	25	1	US-11-060-756-260956 Sequence 260956, A
88	25	1.4	25	1	US-11-060-756-262560 Sequence 262560, A
89	25	1.4	25	1	US-11-060-756-265948 Sequence 265948, A
90	25	1.4	25	1	US-11-060-756-279400 Sequence 279400, A
91	25	1.4	25	1	US-11-060-756-279716 Sequence 279716, A
92	25	1.4	25	1	US-11-060-756-281261 Sequence 281261, A
93	25	1.4	25	1	US-11-060-756-283013 Sequence 283013, A
94	25	1.4	25	1	US-11-060-756-285037 Sequence 285037, A
95	25	1.4	25	1	US-11-060-756-286908 Sequence 286908, A
96	25	1.4	25	1	US-11-060-756-287921 Sequence 287921, A
97	25	1.4	25	1	US-11-121-849-668383 Sequence 668383, A
98	25	1.4	25	1	US-11-121-849-668384 Sequence 668384, A
99	25	1.4	25	1	US-11-121-849-668385 Sequence 668385, A
100	25	1.4	25	1	US-11-121-849-668386 Sequence 668386, A
101	25	1.4	25	1	US-11-121-849-668387 Sequence 668387, A
102	25	1.4	25	1	US-11-121-849-668388 Sequence 668388, A
103	25	1.4	25	1	US-11-121-849-668389 Sequence 668389, A
104	25	1.4	25	1	US-11-121-849-668390 Sequence 668390, A
105	25	1.4	25	1	US-11-121-849-668391 Sequence 668391, A
106	25	1.4	25	1	US-11-121-849-668392 Sequence 668392, A

107	25	1.4	25	1	US-11-121-849-668393	Sequence 668393,	180	20.2	1.1	25	1	US-11-060-756-128205	Sequence 128205,
108	24.8	1.4	31	1	US-09-801-274-1145	Sequence 1145, Ap	181	20.2	1.1	25	1	US-11-060-756-137566	Sequence 137566,
109	24.8	1.3	31	1	US-09-801-274-1338	Sequence 1338, Ap	182	20.2	1.1	25	1	US-11-060-756-13454	Sequence 139454,
110	23.4	1.4	25	1	US-10-719-956-108328	Sequence 108328,	183	20.2	1.1	25	1	US-11-060-756-146298	Sequence 146298,
111	23.4	1.3	25	1	US-10-719-900-371517	Sequence 371517,	184	20.2	1.1	25	1	US-11-060-756-163148	Sequence 163148,
112	23.4	1.3	25	1	US-10-719-900-452393	Sequence 452393,	185	20.2	1.1	25	1	US-11-060-756-164983	Sequence 164983,
113	23.4	1.3	25	1	US-10-719-900-563311	Sequence 563311,	186	20.2	1.1	25	1	US-11-060-756-166817	Sequence 166817,
114	23.4	1.3	25	1	US-10-719-900-650683	Sequence 650683,	187	20.2	1.1	25	1	US-11-060-756-168590	Sequence 168590,
115	23.4	1.3	25	1	US-10-719-900-650685	Sequence 650685,	188	20.2	1.1	25	1	US-11-060-756-168519	Sequence 192519,
116	23.4	1.3	25	1	US-10-719-900-847289	Sequence 847289,	189	20.2	1.1	25	1	US-11-060-756-172861	Sequence 218631,
117	23.4	1.3	25	1	US-11-036-317-407684	Sequence 407684,	190	20.2	1.1	25	1	US-11-060-756-218632	Sequence 218632,
118	23.4	1.3	25	1	US-11-036-317-413596	Sequence 413596,	191	20.2	1.1	25	1	US-11-060-756-256967	Sequence 256967,
119	23.4	1.3	25	1	US-11-036-317-443156	Sequence 443156,	192	20.2	1.1	25	1	US-11-060-756-263670	Sequence 263670,
120	23.4	1.3	25	1	US-11-036-317-455937	Sequence 455937,	193	20.2	1.1	25	1	US-11-060-756-273444	Sequence 273444,
121	23.4	1.3	25	1	US-11-060-756-175673	Sequence 175673,	194	20.2	1.1	25	1	US-11-060-756-282661	Sequence 282661,
122	23.4	1.3	25	1	US-11-060-756-183239	Sequence 183239,	195	20.2	1.1	25	1	US-11-060-756-282662	Sequence 282662,
123	23.4	1.3	25	1	US-11-136-527-158535	Sequence 158535,	196	20.2	1.1	25	1	US-11-121-849-48862	Sequence 48862, A
124	23.4	1.3	25	1	US-11-136-527-158536	Sequence 158536,	197	20.2	1.1	25	1	US-11-121-849-125376	Sequence 125376,
125	23.4	1.3	25	1	US-11-136-527-158538	Sequence 158538,	198	20.2	1.1	25	1	US-11-121-849-125380	Sequence 125380,
126	23.4	1.3	25	1	US-11-136-527-158539	Sequence 158539,	199	20.2	1.1	25	1	US-11-121-849-184585	Sequence 184585,
127	23	1.3	23	1	US-10-798-090-199	Sequence 199, App	200	20.2	1.1	25	1	US-11-121-849-184586	Sequence 184586,
128	23	1.3	23	1	US-10-798-090-200	Sequence 200, App	201	20.2	1.1	25	1	US-11-136-527-134960	Sequence 134960,
129	23	1.3	23	1	US-10-798-090-201	Sequence 201, App	202	20.2	1.1	25	1	US-11-136-527-134972	Sequence 134972,
130	23	1.3	23	1	US-10-798-090-202	Sequence 202, App	203	19	1.1	19	1	US-10-798-090-1	Sequence 1, App1
131	23	1.3	23	1	US-10-798-090-203	Sequence 203, App	204	19	1.1	19	1	US-10-798-090-2	Sequence 2, App1
132	23	1.3	23	1	US-10-798-090-204	Sequence 204, App	205	19	1.1	19	1	US-10-798-090-3	Sequence 3, App1
133	23	1.3	23	1	US-10-798-090-205	Sequence 205, App	206	19	1.1	19	1	US-10-798-090-4	Sequence 4, App1
134	23	1.3	23	1	US-10-798-090-206	Sequence 206, App	207	19	1.1	19	1	US-10-798-090-5	Sequence 5, App1
135	23	1.3	23	1	US-10-919-866-199	Sequence 199, App	208	19	1.1	19	1	US-10-798-090-6	Sequence 6, App1
136	23	1.3	23	1	US-10-919-866-200	Sequence 200, App	209	19	1.1	19	1	US-10-798-090-7	Sequence 7, App1
137	23	1.3	23	1	US-10-919-866-201	Sequence 201, App	210	19	1.1	19	1	US-10-798-090-8	Sequence 8, App1
138	23	1.3	23	1	US-10-919-866-202	Sequence 202, App	211	19	1.1	19	1	US-10-798-090-9	Sequence 9, App1
139	23	1.3	23	1	US-10-919-866-203	Sequence 203, App	212	19	1.1	19	1	US-10-798-090-10	Sequence 10, App1
140	23	1.3	23	1	US-10-919-866-204	Sequence 204, App	213	19	1.1	19	1	US-10-798-090-11	Sequence 11, App1
141	23	1.3	23	1	US-10-919-866-205	Sequence 205, App	214	19	1.1	19	1	US-10-798-090-12	Sequence 12, App1
142	23	1.3	23	1	US-10-919-866-206	Sequence 206, App	215	19	1.1	19	1	US-10-798-090-13	Sequence 13, App1
143	23	1.3	23	1	US-10-719-900-451173	Sequence 451173,	216	19	1.1	19	1	US-10-798-090-14	Sequence 14, App1
144	22.4	1.3	25	1	US-11-136-527-158537	Sequence 158537,	217	19	1.1	19	1	US-10-798-090-15	Sequence 15, App1
145	21.8	1.2	25	1	US-10-719-956-274609	Sequence 274609,	218	19	1.1	19	1	US-10-798-090-16	Sequence 16, App1
146	21.8	1.2	25	1	US-10-719-900-371516	Sequence 371516,	219	19	1.1	19	1	US-10-798-090-17	Sequence 17, App1
147	21.8	1.2	25	1	US-10-719-900-387771	Sequence 387771,	220	19	1.1	19	1	US-10-798-090-18	Sequence 18, App1
148	21.8	1.2	25	1	US-10-719-900-452392	Sequence 452392,	221	19	1.1	19	1	US-10-798-090-19	Sequence 19, App1
149	21.8	1.2	25	1	US-10-719-900-562103	Sequence 562103,	222	19	1.1	19	1	US-10-798-090-20	Sequence 20, App1
150	21.8	1.2	25	1	US-10-719-900-563310	Sequence 563310,	223	19	1.1	19	1	US-10-798-090-21	Sequence 21, App1
151	21.8	1.2	25	1	US-10-719-900-847290	Sequence 847290,	224	19	1.1	19	1	US-10-798-090-22	Sequence 22, App1
152	21.8	1.2	25	1	US-11-036-317-485535	Sequence 485535,	225	19	1.1	19	1	US-10-798-090-23	Sequence 23, App1
153	21.8	1.2	25	1	US-11-060-756-141921	Sequence 141921,	226	19	1.1	19	1	US-10-798-090-24	Sequence 24, App1
154	21.8	1.2	25	1	US-11-060-756-146660	Sequence 146660,	227	19	1.1	19	1	US-10-798-090-25	Sequence 25, App1
155	21.8	1.2	25	1	US-11-060-756-152117	Sequence 152117,	228	19	1.1	19	1	US-10-798-090-26	Sequence 26, App1
156	21.8	1.2	25	1	US-11-136-527-158540	Sequence 158540,	229	19	1.1	19	1	US-10-798-090-27	Sequence 27, App1
157	21.4	1.2	25	1	US-10-809-189-58455	Sequence 58455, A	230	19	1.1	19	1	US-10-798-090-28	Sequence 28, App1
158	20.8	1.2	25	1	US-10-719-900-451174	Sequence 451174,	231	19	1.1	19	1	US-10-798-090-29	Sequence 29, App1
159	20.8	1.2	25	1	US-11-060-756-140215	Sequence 140215,	232	19	1.1	19	1	US-10-798-090-30	Sequence 30, App1
160	20.8	1.2	25	1	US-11-060-756-140215	Sequence 140215,	233	19	1.1	19	1	US-10-798-090-31	Sequence 31, App1
161	20.8	1.2	25	1	US-11-060-756-176156	Sequence 176156,	234	19	1.1	19	1	US-10-798-090-32	Sequence 32, App1
162	20.8	1.2	25	1	US-11-060-756-202713	Sequence 202713,	235	19	1.1	19	1	US-10-798-090-33	Sequence 33, App1
163	20.8	1.2	25	1	US-11-060-756-239676	Sequence 239676,	236	19	1.1	19	1	US-10-798-090-34	Sequence 34, App1
164	20.8	1.2	25	1	US-11-121-849-124288	Sequence 124288,	237	19	1.1	19	1	US-10-798-090-35	Sequence 35, App1
165	20.8	1.2	25	1	US-11-136-527-158541	Sequence 158541,	238	19	1.1	19	1	US-10-798-090-36	Sequence 36, App1
166	20.2	1.1	25	1	US-10-719-956-274610	Sequence 274610,	239	19	1.1	19	1	US-10-798-090-37	Sequence 37, App1
167	20.2	1.1	25	1	US-10-719-956-580106	Sequence 580106,	240	19	1.1	19	1	US-10-798-090-38	Sequence 38, App1
168	20.2	1.1	25	1	US-10-719-956-664015	Sequence 664015,	241	19	1.1	19	1	US-10-798-090-39	Sequence 39, App1
169	20.2	1.1	25	1	US-10-719-900-43769	Sequence 43769, A	242	19	1.1	19	1	US-10-798-090-40	Sequence 40, App1
170	20.2	1.1	25	1	US-10-719-900-55769	Sequence 55769, A	243	19	1.1	19	1	US-10-798-090-41	Sequence 41, App1
171	20.2	1.1	25	1	US-10-719-900-387772	Sequence 387772,	244	19	1.1	19	1	US-10-798-090-42	Sequence 42, App1
172	20.2	1.1	25	1	US-10-719-900-562102	Sequence 562102,	245	19	1.1	19	1	US-10-798-090-43	Sequence 43, App1
173	20.2	1.1	25	1	US-10-719-900-795977	Sequence 795977,	246	19	1.1	19	1	US-10-798-090-44	Sequence 44, App1
174	20.2	1.1	25	1	US-10-719-900-953129	Sequence 953129,	247	19	1.1	19	1	US-10-798-090-45	Sequence 45, App1
175	20.2	1.1	25	1	US-10-809-189-99629	Sequence 99629, A	248	19	1.1	19	1	US-10-798-090-46	Sequence 46, App1
176	20.2	1.1	25	1	US-10-809-189-115275	Sequence 115275,	249	19	1.1	19	1	US-10-798-090-47	Sequence 47, App1
177	20.2	1.1	25	1	US-11-060-756-121819	Sequence 121819,	250	19	1.1	19	1	US-10-798-090-48	Sequence 48, App1
178	20.2	1.1	25	1	US-11-060-756-121820	Sequence 121820,	251	19	1.1	19	1	US-10-798-090-49	Sequence 49, App1
179	20.2	1.1	25	1	US-11-060-756-122169	Sequence 122169,	252	19	1.1	19	1	US-10-798-090-50	Sequence 50, App1

253	19	1.1	19	1	US-10-798-090-51	Sequence 51, App1	C 326	19	1.1	19	1	US-10-798-090-124	Sequence 124, App
254	19	1.1	19	1	US-10-798-090-52	Sequence 52, App1	C 327	19	1.1	19	1	US-10-798-090-125	Sequence 125, App
255	19	1.1	19	1	US-10-798-090-53	Sequence 53, App1	C 328	19	1.1	19	1	US-10-798-090-126	Sequence 126, App
256	19	1.1	19	1	US-10-798-090-54	Sequence 54, App1	C 329	19	1.1	19	1	US-10-798-090-127	Sequence 127, App
257	19	1.1	19	1	US-10-798-090-55	Sequence 55, App1	C 330	19	1.1	19	1	US-10-798-090-128	Sequence 128, App
258	19	1.1	19	1	US-10-798-090-56	Sequence 56, App1	C 331	19	1.1	19	1	US-10-798-090-129	Sequence 129, App
259	19	1.1	19	1	US-10-798-090-57	Sequence 57, App1	C 332	19	1.1	19	1	US-10-798-090-130	Sequence 130, App
260	19	1.1	19	1	US-10-798-090-58	Sequence 58, App1	C 333	19	1.1	19	1	US-10-798-090-131	Sequence 131, App
261	19	1.1	19	1	US-10-798-090-59	Sequence 59, App1	C 334	19	1.1	19	1	US-10-798-090-132	Sequence 132, App
262	19	1.1	19	1	US-10-798-090-60	Sequence 60, App1	C 335	19	1.1	19	1	US-10-798-090-133	Sequence 133, App
263	19	1.1	19	1	US-10-798-090-61	Sequence 61, App1	C 336	19	1.1	19	1	US-10-798-090-134	Sequence 134, App
264	19	1.1	19	1	US-10-798-090-62	Sequence 62, App1	C 337	19	1.1	19	1	US-10-798-090-135	Sequence 135, App
265	19	1.1	19	1	US-10-798-090-63	Sequence 63, App1	C 338	19	1.1	19	1	US-10-798-090-136	Sequence 136, App
266	19	1.1	19	1	US-10-798-090-64	Sequence 64, App1	C 339	19	1.1	19	1	US-10-798-090-137	Sequence 137, App
267	19	1.1	19	1	US-10-798-090-65	Sequence 65, App1	C 340	19	1.1	19	1	US-10-798-090-138	Sequence 138, App
268	19	1.1	19	1	US-10-798-090-66	Sequence 66, App1	C 341	19	1.1	19	1	US-10-798-090-139	Sequence 139, App
269	19	1.1	19	1	US-10-798-090-67	Sequence 67, App1	C 342	19	1.1	19	1	US-10-798-090-140	Sequence 140, App
270	19	1.1	19	1	US-10-798-090-68	Sequence 68, App1	C 343	19	1.1	19	1	US-10-798-090-141	Sequence 141, App
271	19	1.1	19	1	US-10-798-090-69	Sequence 69, App1	C 344	19	1.1	19	1	US-10-798-090-142	Sequence 142, App
272	19	1.1	19	1	US-10-798-090-70	Sequence 70, App1	C 345	19	1.1	19	1	US-10-798-090-143	Sequence 143, App
273	19	1.1	19	1	US-10-798-090-71	Sequence 71, App1	C 346	19	1.1	19	1	US-10-798-090-144	Sequence 144, App
274	19	1.1	19	1	US-10-798-090-72	Sequence 72, App1	C 347	19	1.1	19	1	US-10-798-090-145	Sequence 145, App
275	19	1.1	19	1	US-10-798-090-73	Sequence 73, App1	C 348	19	1.1	19	1	US-10-798-090-146	Sequence 146, App
276	19	1.1	19	1	US-10-798-090-74	Sequence 74, App1	C 349	19	1.1	19	1	US-10-798-090-147	Sequence 147, App
277	19	1.1	19	1	US-10-798-090-75	Sequence 75, App1	C 350	19	1.1	19	1	US-10-798-090-148	Sequence 148, App
278	19	1.1	19	1	US-10-798-090-76	Sequence 76, App1	C 351	19	1.1	19	1	US-10-798-090-149	Sequence 149, App
279	19	1.1	19	1	US-10-798-090-77	Sequence 77, App1	C 352	19	1.1	19	1	US-10-798-090-150	Sequence 150, App
280	19	1.1	19	1	US-10-798-090-78	Sequence 78, App1	C 353	19	1.1	19	1	US-10-798-090-151	Sequence 151, App
281	19	1.1	19	1	US-10-798-090-79	Sequence 79, App1	C 354	19	1.1	19	1	US-10-798-090-152	Sequence 152, App
282	19	1.1	19	1	US-10-798-090-80	Sequence 80, App1	C 355	19	1.1	19	1	US-10-798-090-153	Sequence 153, App
283	19	1.1	19	1	US-10-798-090-81	Sequence 81, App1	C 356	19	1.1	19	1	US-10-798-090-154	Sequence 154, App
284	19	1.1	19	1	US-10-798-090-82	Sequence 82, App1	C 357	19	1.1	19	1	US-10-798-090-155	Sequence 155, App
285	19	1.1	19	1	US-10-798-090-83	Sequence 83, App1	C 358	19	1.1	19	1	US-10-798-090-156	Sequence 156, App
286	19	1.1	19	1	US-10-798-090-84	Sequence 84, App1	C 359	19	1.1	19	1	US-10-798-090-157	Sequence 157, App
287	19	1.1	19	1	US-10-798-090-85	Sequence 85, App1	C 360	19	1.1	19	1	US-10-798-090-158	Sequence 158, App
288	19	1.1	19	1	US-10-798-090-86	Sequence 86, App1	C 361	19	1.1	19	1	US-10-798-090-159	Sequence 159, App
289	19	1.1	19	1	US-10-798-090-87	Sequence 87, App1	C 362	19	1.1	19	1	US-10-798-090-160	Sequence 160, App
290	19	1.1	19	1	US-10-798-090-88	Sequence 88, App1	C 363	19	1.1	19	1	US-10-798-090-161	Sequence 161, App
291	19	1.1	19	1	US-10-798-090-89	Sequence 89, App1	C 364	19	1.1	19	1	US-10-798-090-162	Sequence 162, App
292	19	1.1	19	1	US-10-798-090-90	Sequence 90, App1	C 365	19	1.1	19	1	US-10-798-090-163	Sequence 163, App
293	19	1.1	19	1	US-10-798-090-91	Sequence 91, App1	C 366	19	1.1	19	1	US-10-798-090-164	Sequence 164, App
294	19	1.1	19	1	US-10-798-090-92	Sequence 92, App1	C 367	19	1.1	19	1	US-10-798-090-165	Sequence 165, App
295	19	1.1	19	1	US-10-798-090-93	Sequence 93, App1	C 368	19	1.1	19	1	US-10-798-090-166	Sequence 166, App
296	19	1.1	19	1	US-10-798-090-94	Sequence 94, App1	C 369	19	1.1	19	1	US-10-798-090-167	Sequence 167, App
297	19	1.1	19	1	US-10-798-090-95	Sequence 95, App1	C 370	19	1.1	19	1	US-10-798-090-168	Sequence 168, App
298	19	1.1	19	1	US-10-798-090-96	Sequence 96, App1	C 371	19	1.1	19	1	US-10-798-090-169	Sequence 169, App
299	19	1.1	19	1	US-10-798-090-97	Sequence 97, App1	C 372	19	1.1	19	1	US-10-798-090-170	Sequence 170, App
300	19	1.1	19	1	US-10-798-090-98	Sequence 98, App1	C 373	19	1.1	19	1	US-10-798-090-171	Sequence 171, App
301	19	1.1	19	1	US-10-798-090-99	Sequence 99, App1	C 374	19	1.1	19	1	US-10-798-090-172	Sequence 172, App
302	19	1.1	19	1	US-10-798-090-100	Sequence 100, App	C 375	19	1.1	19	1	US-10-798-090-173	Sequence 173, App
303	19	1.1	19	1	US-10-798-090-101	Sequence 101, App	C 376	19	1.1	19	1	US-10-798-090-174	Sequence 174, App
304	19	1.1	19	1	US-10-798-090-102	Sequence 102, App	C 377	19	1.1	19	1	US-10-798-090-175	Sequence 175, App
305	19	1.1	19	1	US-10-798-090-103	Sequence 103, App	C 378	19	1.1	19	1	US-10-798-090-176	Sequence 176, App
306	19	1.1	19	1	US-10-798-090-104	Sequence 104, App	C 379	19	1.1	19	1	US-10-798-090-177	Sequence 177, App
307	19	1.1	19	1	US-10-798-090-105	Sequence 105, App	C 380	19	1.1	19	1	US-10-798-090-178	Sequence 178, App
308	19	1.1	19	1	US-10-798-090-106	Sequence 106, App	C 381	19	1.1	19	1	US-10-798-090-179	Sequence 179, App
309	19	1.1	19	1	US-10-798-090-107	Sequence 107, App	C 382	19	1.1	19	1	US-10-798-090-180	Sequence 180, App
310	19	1.1	19	1	US-10-798-090-108	Sequence 108, App	C 383	19	1.1	19	1	US-10-798-090-181	Sequence 181, App
311	19	1.1	19	1	US-10-798-090-109	Sequence 109, App	C 384	19	1.1	19	1	US-10-798-090-182	Sequence 182, App
312	19	1.1	19	1	US-10-798-090-110	Sequence 110, App	C 385	19	1.1	19	1	US-10-798-090-183	Sequence 183, App
313	19	1.1	19	1	US-10-798-090-111	Sequence 111, App	C 386	19	1.1	19	1	US-10-798-090-184	Sequence 184, App
314	19	1.1	19	1	US-10-798-090-112	Sequence 112, App	C 387	19	1.1	19	1	US-10-798-090-185	Sequence 185, App
315	19	1.1	19	1	US-10-798-090-113	Sequence 113, App	C 388	19	1.1	19	1	US-10-798-090-186	Sequence 186, App
316	19	1.1	19	1	US-10-798-090-114	Sequence 114, App	C 389	19	1.1	19	1	US-10-798-090-187	Sequence 187, App
317	19	1.1	19	1	US-10-798-090-115	Sequence 115, App	C 390	19	1.1	19	1	US-10-798-090-188	Sequence 188, App
318	19	1.1	19	1	US-10-798-090-116	Sequence 116, App	C 391	19	1.1	19	1	US-10-798-090-189	Sequence 189, App
319	19	1.1	19	1	US-10-798-090-117	Sequence 117, App	C 392	19	1.1	19	1	US-10-798-090-190	Sequence 190, App
320	19	1.1	19	1	US-10-798-090-118	Sequence 118, App	C 393	19	1.1	19	1	US-10-798-090-191	Sequence 191, App
321	19	1.1	19	1	US-10-798-090-119	Sequence 119, App	C 394	19	1.1	19	1	US-10-798-090-192	Sequence 192, App
322	19	1.1	19	1	US-10-798-090-120	Sequence 120, App	C 395	19	1.1	19	1	US-10-798-090-193	Sequence 193, App
323	19	1.1	19	1	US-10-798-090-121	Sequence 121, App	C 396	19	1.1	19	1	US-10-798-090-194	Sequence 194, App
324	19	1.1	19	1	US-10-798-090-122	Sequence 122, App	C 397	19	1.1	19	1	US-10-798-090-195	Sequence 195, App
325	19	1.1	19	1	US-10-798-090-123	Sequence 123, App	C 398	19	1.1	19	1	US-10-798-090-196	Sequence 196, App

C 399	19	1.1	19	1	US-10-798-090-197	Sequence 197, App	472	19	1.1	19	1	US-10-919-866-72	Sequence 72, Appl
C 400	19	1.1	19	1	US-10-798-090-198	Sequence 198, App	473	19	1.1	19	1	US-10-919-866-73	Sequence 73, Appl
401	19	1.1	19	1	US-10-919-866-1	Sequence 1, Appl	474	19	1.1	19	1	US-10-919-866-74	Sequence 74, Appl
402	19	1.1	19	1	US-10-919-866-2	Sequence 2, Appl	475	19	1.1	19	1	US-10-919-866-75	Sequence 75, Appl
403	19	1.1	19	1	US-10-919-866-3	Sequence 3, Appl	476	19	1.1	19	1	US-10-919-866-76	Sequence 76, Appl
404	19	1.1	19	1	US-10-919-866-4	Sequence 4, Appl	477	19	1.1	19	1	US-10-919-866-77	Sequence 77, Appl
405	19	1.1	19	1	US-10-919-866-5	Sequence 5, Appl	478	19	1.1	19	1	US-10-919-866-78	Sequence 78, Appl
406	19	1.1	19	1	US-10-919-866-6	Sequence 6, Appl	479	19	1.1	19	1	US-10-919-866-79	Sequence 79, Appl
407	19	1.1	19	1	US-10-919-866-7	Sequence 7, Appl	480	19	1.1	19	1	US-10-919-866-80	Sequence 80, Appl
408	19	1.1	19	1	US-10-919-866-8	Sequence 8, Appl	481	19	1.1	19	1	US-10-919-866-81	Sequence 81, Appl
409	19	1.1	19	1	US-10-919-866-9	Sequence 9, Appl	482	19	1.1	19	1	US-10-919-866-82	Sequence 82, Appl
410	19	1.1	19	1	US-10-919-866-10	Sequence 10, Appl	483	19	1.1	19	1	US-10-919-866-83	Sequence 83, Appl
411	19	1.1	19	1	US-10-919-866-11	Sequence 11, Appl	484	19	1.1	19	1	US-10-919-866-84	Sequence 84, Appl
412	19	1.1	19	1	US-10-919-866-12	Sequence 12, Appl	485	19	1.1	19	1	US-10-919-866-85	Sequence 85, Appl
413	19	1.1	19	1	US-10-919-866-13	Sequence 13, Appl	486	19	1.1	19	1	US-10-919-866-86	Sequence 86, Appl
414	19	1.1	19	1	US-10-919-866-14	Sequence 14, Appl	487	19	1.1	19	1	US-10-919-866-87	Sequence 87, Appl
415	19	1.1	19	1	US-10-919-866-15	Sequence 15, Appl	488	19	1.1	19	1	US-10-919-866-88	Sequence 88, Appl
416	19	1.1	19	1	US-10-919-866-16	Sequence 16, Appl	489	19	1.1	19	1	US-10-919-866-89	Sequence 89, Appl
417	19	1.1	19	1	US-10-919-866-17	Sequence 17, Appl	490	19	1.1	19	1	US-10-919-866-90	Sequence 90, Appl
418	19	1.1	19	1	US-10-919-866-18	Sequence 18, Appl	491	19	1.1	19	1	US-10-919-866-91	Sequence 91, Appl
419	19	1.1	19	1	US-10-919-866-19	Sequence 19, Appl	492	19	1.1	19	1	US-10-919-866-92	Sequence 92, Appl
420	19	1.1	19	1	US-10-919-866-20	Sequence 20, Appl	493	19	1.1	19	1	US-10-919-866-93	Sequence 93, Appl
421	19	1.1	19	1	US-10-919-866-21	Sequence 21, Appl	494	19	1.1	19	1	US-10-919-866-94	Sequence 94, Appl
422	19	1.1	19	1	US-10-919-866-22	Sequence 22, Appl	495	19	1.1	19	1	US-10-919-866-95	Sequence 95, Appl
423	19	1.1	19	1	US-10-919-866-23	Sequence 23, Appl	496	19	1.1	19	1	US-10-919-866-96	Sequence 96, Appl
424	19	1.1	19	1	US-10-919-866-24	Sequence 24, Appl	497	19	1.1	19	1	US-10-919-866-97	Sequence 97, Appl
425	19	1.1	19	1	US-10-919-866-25	Sequence 25, Appl	498	19	1.1	19	1	US-10-919-866-98	Sequence 98, Appl
426	19	1.1	19	1	US-10-919-866-26	Sequence 26, Appl	499	19	1.1	19	1	US-10-919-866-99	Sequence 99, Appl
427	19	1.1	19	1	US-10-919-866-27	Sequence 27, Appl	C 500	19	1.1	19	1	US-10-919-866-100	Sequence 100, Appl
428	19	1.1	19	1	US-10-919-866-28	Sequence 28, Appl	C 501	19	1.1	19	1	US-10-919-866-101	Sequence 101, Appl
429	19	1.1	19	1	US-10-919-866-29	Sequence 29, Appl	C 502	19	1.1	19	1	US-10-919-866-102	Sequence 102, Appl
430	19	1.1	19	1	US-10-919-866-30	Sequence 30, Appl	C 503	19	1.1	19	1	US-10-919-866-103	Sequence 103, Appl
431	19	1.1	19	1	US-10-919-866-31	Sequence 31, Appl	C 504	19	1.1	19	1	US-10-919-866-104	Sequence 104, Appl
432	19	1.1	19	1	US-10-919-866-32	Sequence 32, Appl	C 505	19	1.1	19	1	US-10-919-866-105	Sequence 105, Appl
433	19	1.1	19	1	US-10-919-866-33	Sequence 33, Appl	C 506	19	1.1	19	1	US-10-919-866-106	Sequence 106, Appl
434	19	1.1	19	1	US-10-919-866-34	Sequence 34, Appl	C 507	19	1.1	19	1	US-10-919-866-107	Sequence 107, Appl
435	19	1.1	19	1	US-10-919-866-35	Sequence 35, Appl	C 508	19	1.1	19	1	US-10-919-866-108	Sequence 108, Appl
436	19	1.1	19	1	US-10-919-866-36	Sequence 36, Appl	C 509	19	1.1	19	1	US-10-919-866-109	Sequence 109, Appl
437	19	1.1	19	1	US-10-919-866-37	Sequence 37, Appl	C 510	19	1.1	19	1	US-10-919-866-110	Sequence 110, Appl
438	19	1.1	19	1	US-10-919-866-38	Sequence 38, Appl	C 511	19	1.1	19	1	US-10-919-866-111	Sequence 111, Appl
439	19	1.1	19	1	US-10-919-866-39	Sequence 39, Appl	C 512	19	1.1	19	1	US-10-919-866-112	Sequence 112, Appl
440	19	1.1	19	1	US-10-919-866-40	Sequence 40, Appl	C 513	19	1.1	19	1	US-10-919-866-113	Sequence 113, Appl
441	19	1.1	19	1	US-10-919-866-41	Sequence 41, Appl	C 514	19	1.1	19	1	US-10-919-866-114	Sequence 114, Appl
442	19	1.1	19	1	US-10-919-866-42	Sequence 42, Appl	C 515	19	1.1	19	1	US-10-919-866-115	Sequence 115, Appl
443	19	1.1	19	1	US-10-919-866-43	Sequence 43, Appl	C 516	19	1.1	19	1	US-10-919-866-116	Sequence 116, Appl
444	19	1.1	19	1	US-10-919-866-44	Sequence 44, Appl	C 517	19	1.1	19	1	US-10-919-866-117	Sequence 117, Appl
445	19	1.1	19	1	US-10-919-866-45	Sequence 45, Appl	C 518	19	1.1	19	1	US-10-919-866-118	Sequence 118, Appl
446	19	1.1	19	1	US-10-919-866-46	Sequence 46, Appl	C 520	19	1.1	19	1	US-10-919-866-119	Sequence 119, Appl
447	19	1.1	19	1	US-10-919-866-47	Sequence 47, Appl	C 521	19	1.1	19	1	US-10-919-866-120	Sequence 120, Appl
448	19	1.1	19	1	US-10-919-866-48	Sequence 48, Appl	C 522	19	1.1	19	1	US-10-919-866-121	Sequence 121, Appl
449	19	1.1	19	1	US-10-919-866-49	Sequence 49, Appl	C 523	19	1.1	19	1	US-10-919-866-122	Sequence 122, Appl
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451	19	1.1	19	1	US-10-919-866-51	Sequence 51, Appl	C 525	19	1.1	19	1	US-10-919-866-124	Sequence 124, Appl
452	19	1.1	19	1	US-10-919-866-52	Sequence 52, Appl	C 526	19	1.1	19	1	US-10-919-866-125	Sequence 125, Appl
453	19	1.1	19	1	US-10-919-866-53	Sequence 53, Appl	C 527	19	1.1	19	1	US-10-919-866-126	Sequence 126, Appl
454	19	1.1	19	1	US-10-919-866-54	Sequence 54, Appl	C 528	19	1.1	19	1	US-10-919-866-127	Sequence 127, Appl
455	19	1.1	19	1	US-10-919-866-55	Sequence 55, Appl	C 529	19	1.1	19	1	US-10-919-866-128	Sequence 128, Appl
456	19	1.1	19	1	US-10-919-866-56	Sequence 56, Appl	C 530	19	1.1	19	1	US-10-919-866-129	Sequence 129, Appl
457	19	1.1	19	1	US-10-919-866-57	Sequence 57, Appl	C 531	19	1.1	19	1	US-10-919-866-130	Sequence 130, Appl
458	19	1.1	19	1	US-10-919-866-58	Sequence 58, Appl	C 532	19	1.1	19	1	US-10-919-866-131	Sequence 131, Appl
459	19	1.1	19	1	US-10-919-866-59	Sequence 59, Appl	C 533	19	1.1	19	1	US-10-919-866-132	Sequence 132, Appl
460	19	1.1	19	1	US-10-919-866-60	Sequence 60, Appl	C 534	19	1.1	19	1	US-10-919-866-133	Sequence 133, Appl
461	19	1.1	19	1	US-10-919-866-61	Sequence 61, Appl	C 535	19	1.1	19	1	US-10-919-866-134	Sequence 134, Appl
462	19	1.1	19	1	US-10-919-866-62	Sequence 62, Appl	C 536	19	1.1	19	1	US-10-919-866-135	Sequence 135, Appl
463	19	1.1	19	1	US-10-919-866-63	Sequence 63, Appl	C 537	19	1.1	19	1	US-10-919-866-136	Sequence 136, Appl
464	19	1.1	19	1	US-10-919-866-64	Sequence 64, Appl	C 538	19	1.1	19	1	US-10-919-866-137	Sequence 137, Appl
465	19	1.1	19	1	US-10-919-866-65	Sequence 65, Appl	C 539	19	1.1	19	1	US-10-919-866-138	Sequence 138, Appl
466	19	1.1	19	1	US-10-919-866-66	Sequence 66, Appl	C 540	19	1.1	19	1	US-10-919-866-139	Sequence 139, Appl
467	19	1.1	19	1	US-10-919-866-67	Sequence 67, Appl	C 541	19	1.1	19	1	US-10-919-866-140	Sequence 140, Appl
468	19	1.1	19	1	US-10-919-866-68	Sequence 68, Appl	C 542	19	1.1	19	1	US-10-919-866-141	Sequence 141, Appl
469	19	1.1	19	1	US-10-919-866-69	Sequence 69, Appl	C 543	19	1.1	19	1	US-10-919-866-142	Sequence 142, Appl
470	19	1.1	19	1	US-10-919-866-70	Sequence 70, Appl	C 544	19	1.1	19	1	US-10-919-866-143	Sequence 143, Appl
471	19	1.1	19	1	US-10-919-866-71	Sequence 71, Appl	C 544	19	1.1	19	1	US-10-919-866-144	Sequence 144, Appl

C 545	19	1.1	19	1	US-10-919-866-145	Sequence 145, App	618	19	1.1	19	1	US-11-083-784-97018	Sequence 97018, A
C 546	19	1.1	19	1	US-10-919-866-146	Sequence 146, App	619	19	1.1	19	1	US-11-083-784-97019	Sequence 97019, A
C 547	19	1.1	19	1	US-10-919-866-147	Sequence 147, App	620	19	1.1	19	1	US-11-083-784-97020	Sequence 97020, A
C 548	19	1.1	19	1	US-10-919-866-148	Sequence 148, App	621	19	1.1	19	1	US-11-083-784-97021	Sequence 97021, A
C 549	19	1.1	19	1	US-10-919-866-149	Sequence 149, App	622	19	1.1	19	1	US-11-083-784-97022	Sequence 97022, A
C 550	19	1.1	19	1	US-10-919-866-150	Sequence 150, App	623	19	1.1	19	1	US-11-083-784-97023	Sequence 97023, A
C 551	19	1.1	19	1	US-10-919-866-151	Sequence 151, App	624	19	1.1	19	1	US-11-083-784-97024	Sequence 97024, A
C 552	19	1.1	19	1	US-10-919-866-152	Sequence 152, App	625	19	1.1	19	1	US-11-083-784-97025	Sequence 97025, A
C 553	19	1.1	19	1	US-10-919-866-153	Sequence 153, App	626	19	1.1	19	1	US-11-083-784-97026	Sequence 97026, A
C 554	19	1.1	19	1	US-10-919-866-154	Sequence 154, App	627	19	1.1	19	1	US-11-083-784-97027	Sequence 97027, A
C 555	19	1.1	19	1	US-10-919-866-155	Sequence 155, App	628	19	1.1	19	1	US-11-083-784-97028	Sequence 97028, A
C 556	19	1.1	19	1	US-10-919-866-156	Sequence 156, App	629	19	1.1	19	1	US-11-083-784-97029	Sequence 97029, A
C 557	19	1.1	19	1	US-10-919-866-157	Sequence 157, App	630	19	1.1	19	1	US-11-083-784-97030	Sequence 97030, A
C 558	19	1.1	19	1	US-10-919-866-158	Sequence 158, App	631	19	1.1	19	1	US-11-083-784-97031	Sequence 97031, A
C 559	19	1.1	19	1	US-10-919-866-159	Sequence 159, App	632	19	1.1	19	1	US-11-083-784-97032	Sequence 97032, A
C 560	19	1.1	19	1	US-10-919-866-160	Sequence 160, App	633	19	1.1	19	1	US-11-083-784-97033	Sequence 97033, A
C 561	19	1.1	19	1	US-10-919-866-161	Sequence 161, App	634	19	1.1	19	1	US-11-083-784-97034	Sequence 97034, A
C 562	19	1.1	19	1	US-10-919-866-162	Sequence 162, App	635	19	1.1	19	1	US-11-083-784-97035	Sequence 97035, A
C 563	19	1.1	19	1	US-10-919-866-163	Sequence 163, App	636	19	1.1	19	1	US-11-083-784-97036	Sequence 97036, A
C 564	19	1.1	19	1	US-10-919-866-164	Sequence 164, App	637	19	1.1	19	1	US-11-083-784-97037	Sequence 97037, A
C 565	19	1.1	19	1	US-10-919-866-165	Sequence 165, App	638	19	1.1	19	1	US-11-083-784-97038	Sequence 97038, A
C 566	19	1.1	19	1	US-10-919-866-166	Sequence 166, App	639	19	1.1	19	1	US-11-083-784-97039	Sequence 97039, A
C 567	19	1.1	19	1	US-10-919-866-167	Sequence 167, App	640	19	1.1	19	1	US-11-083-784-97040	Sequence 97040, A
C 568	19	1.1	19	1	US-10-919-866-168	Sequence 168, App	641	19	1.1	19	1	US-11-083-784-97041	Sequence 97041, A
C 569	19	1.1	19	1	US-10-919-866-169	Sequence 169, App	642	19	1.1	19	1	US-11-083-784-97042	Sequence 97042, A
C 570	19	1.1	19	1	US-10-919-866-170	Sequence 170, App	643	19	1.1	19	1	US-11-083-784-97043	Sequence 97043, A
C 571	19	1.1	19	1	US-10-919-866-171	Sequence 171, App	644	19	1.1	19	1	US-11-083-784-97044	Sequence 97044, A
C 572	19	1.1	19	1	US-10-919-866-172	Sequence 172, App	645	19	1.1	19	1	US-11-083-784-97045	Sequence 97045, A
C 573	19	1.1	19	1	US-10-919-866-173	Sequence 173, App	646	19	1.1	19	1	US-11-083-784-97046	Sequence 97046, A
C 574	19	1.1	19	1	US-10-919-866-174	Sequence 174, App	647	19	1.1	19	1	US-11-083-784-97047	Sequence 97047, A
C 575	19	1.1	19	1	US-10-919-866-175	Sequence 175, App	648	19	1.1	19	1	US-11-083-784-97048	Sequence 97048, A
C 576	19	1.1	19	1	US-10-919-866-176	Sequence 176, App	649	19	1.1	19	1	US-11-083-784-97049	Sequence 97049, A
C 577	19	1.1	19	1	US-10-919-866-177	Sequence 177, App	650	19	1.1	19	1	US-11-083-784-97050	Sequence 97050, A
C 578	19	1.1	19	1	US-10-919-866-178	Sequence 178, App	651	19	1.1	19	1	US-11-083-784-97051	Sequence 97051, A
C 579	19	1.1	19	1	US-10-919-866-179	Sequence 179, App	652	19	1.1	19	1	US-11-083-784-97052	Sequence 97052, A
C 580	19	1.1	19	1	US-10-919-866-180	Sequence 180, App	653	19	1.1	19	1	US-11-083-784-97053	Sequence 97053, A
C 581	19	1.1	19	1	US-10-919-866-181	Sequence 181, App	654	19	1.1	19	1	US-11-083-784-97054	Sequence 97054, A
C 582	19	1.1	19	1	US-10-919-866-182	Sequence 182, App	655	19	1.1	19	1	US-11-083-784-97055	Sequence 97055, A
C 583	19	1.1	19	1	US-10-919-866-183	Sequence 183, App	656	19	1.1	19	1	US-11-083-784-97056	Sequence 97056, A
C 584	19	1.1	19	1	US-10-919-866-184	Sequence 184, App	657	19	1.1	19	1	US-11-083-784-97057	Sequence 97057, A
C 585	19	1.1	19	1	US-10-919-866-185	Sequence 185, App	658	19	1.1	19	1	US-11-083-784-97058	Sequence 97058, A
C 586	19	1.1	19	1	US-10-919-866-186	Sequence 186, App	659	19	1.1	19	1	US-11-083-784-97059	Sequence 97059, A
C 587	19	1.1	19	1	US-10-919-866-187	Sequence 187, App	660	19	1.1	19	1	US-11-083-784-97060	Sequence 97060, A
C 588	19	1.1	19	1	US-10-919-866-188	Sequence 188, App	661	19	1.1	19	1	US-11-083-784-97061	Sequence 97061, A
C 589	19	1.1	19	1	US-10-919-866-189	Sequence 189, App	662	19	1.1	19	1	US-11-083-784-97062	Sequence 97062, A
C 590	19	1.1	19	1	US-10-919-866-190	Sequence 190, App	663	19	1.1	19	1	US-11-083-784-97063	Sequence 97063, A
C 591	19	1.1	19	1	US-10-919-866-191	Sequence 191, App	664	19	1.1	19	1	US-11-083-784-97064	Sequence 97064, A
C 592	19	1.1	19	1	US-10-919-866-192	Sequence 192, App	665	19	1.1	19	1	US-11-083-784-97065	Sequence 97065, A
C 593	19	1.1	19	1	US-10-919-866-193	Sequence 193, App	666	19	1.1	19	1	US-11-083-784-97066	Sequence 97066, A
C 594	19	1.1	19	1	US-10-919-866-194	Sequence 194, App	667	19	1.1	19	1	US-11-083-784-97067	Sequence 97067, A
C 595	19	1.1	19	1	US-10-919-866-195	Sequence 195, App	668	19	1.1	19	1	US-11-083-784-97068	Sequence 97068, A
C 596	19	1.1	19	1	US-10-919-866-196	Sequence 196, App	669	19	1.1	19	1	US-11-083-784-97069	Sequence 97069, A
C 597	19	1.1	19	1	US-10-919-866-197	Sequence 197, App	670	19	1.1	19	1	US-11-083-784-97070	Sequence 97070, A
C 598	19	1.1	19	1	US-10-919-866-198	Sequence 198, App	671	19	1.1	19	1	US-11-083-784-97071	Sequence 97071, A
C 599	19	1.1	19	1	US-11-083-784-96999	Sequence 96999, A	672	19	1.1	19	1	US-11-083-784-97072	Sequence 97072, A
C 600	19	1.1	19	1	US-11-083-784-97000	Sequence 97000, A	673	19	1.1	19	1	US-11-083-784-97073	Sequence 97073, A
C 601	19	1.1	19	1	US-11-083-784-97001	Sequence 97001, A	674	19	1.1	19	1	US-11-083-784-97074	Sequence 97074, A
C 602	19	1.1	19	1	US-11-083-784-97002	Sequence 97002, A	675	19	1.1	19	1	US-11-083-784-97075	Sequence 97075, A
C 603	19	1.1	19	1	US-11-083-784-97003	Sequence 97003, A	676	19	1.1	19	1	US-11-083-784-97076	Sequence 97076, A
C 604	19	1.1	19	1	US-11-083-784-97004	Sequence 97004, A	677	19	1.1	19	1	US-11-083-784-97077	Sequence 97077, A
C 605	19	1.1	19	1	US-11-083-784-97005	Sequence 97005, A	678	19	1.1	19	1	US-11-083-784-97078	Sequence 97078, A
C 606	19	1.1	19	1	US-11-083-784-97006	Sequence 97006, A	679	19	1.1	19	1	US-11-083-784-97079	Sequence 97079, A
C 607	19	1.1	19	1	US-11-083-784-97007	Sequence 97007, A	680	19	1.1	19	1	US-11-083-784-97080	Sequence 97080, A
C 608	19	1.1	19	1	US-11-083-784-97008	Sequence 97008, A	681	19	1.1	19	1	US-11-083-784-97081	Sequence 97081, A
C 609	19	1.1	19	1	US-11-083-784-97009	Sequence 97009, A	682	19	1.1	19	1	US-11-083-784-97082	Sequence 97082, A
C 610	19	1.1	19	1	US-11-083-784-97010	Sequence 97010, A	683	19	1.1	19	1	US-11-083-784-97083	Sequence 97083, A
C 611	19	1.1	19	1	US-11-083-784-97011	Sequence 97011, A	684	19	1.1	19	1	US-11-083-784-97084	Sequence 97084, A
C 612	19	1.1	19	1	US-11-083-784-97012	Sequence 97012, A	685	19	1.1	19	1	US-11-083-784-97085	Sequence 97085, A
C 613	19	1.1	19	1	US-11-083-784-97013	Sequence 97013, A	686	19	1.1	19	1	US-11-083-784-97086	Sequence 97086, A
C 614	19	1.1	19	1	US-11-083-784-97014	Sequence 97014, A	687	19	1.1	19	1	US-11-083-784-97087	Sequence 97087, A
C 615	19	1.1	19	1	US-11-083-784-97015	Sequence 97015, A	688	19	1.1	19	1	US-11-083-784-97088	Sequence 97088, A
C 616	19	1.1	19	1	US-11-083-784-97016	Sequence 97016, A	689	19	1.1	19	1	US-11-083-784-97089	Sequence 97089, A
C 617	19	1.1	19	1	US-11-083-784-97017	Sequence 97017, A	690	19	1.1	19	1	US-11-083-784-97090	Sequence 97090, A

691	19	1.1	19	1	US-11-083-784-97091	Sequence 97091, A	764	19	1.1	19	1	US-11-101-244-97064	Sequence 97064, A
692	19	1.1	19	1	US-11-083-784-97092	Sequence 97092, A	765	19	1.1	19	1	US-11-101-244-97065	Sequence 97065, A
693	19	1.1	19	1	US-11-083-784-97093	Sequence 97093, A	766	19	1.1	19	1	US-11-101-244-97066	Sequence 97066, A
694	19	1.1	19	1	US-11-083-784-97094	Sequence 97094, A	767	19	1.1	19	1	US-11-101-244-97067	Sequence 97067, A
695	19	1.1	19	1	US-11-083-784-97095	Sequence 97095, A	768	19	1.1	19	1	US-11-101-244-97068	Sequence 97068, A
696	19	1.1	19	1	US-11-083-784-97096	Sequence 97096, A	769	19	1.1	19	1	US-11-101-244-97069	Sequence 97069, A
697	19	1.1	19	1	US-11-083-784-97097	Sequence 97097, A	770	19	1.1	19	1	US-11-101-244-97070	Sequence 97070, A
698	19	1.1	19	1	US-11-083-784-97098	Sequence 97098, A	771	19	1.1	19	1	US-11-101-244-97071	Sequence 97071, A
699	19	1.1	19	1	US-11-101-244-96999	Sequence 96999, A	772	19	1.1	19	1	US-11-101-244-97072	Sequence 97072, A
700	19	1.1	19	1	US-11-101-244-97000	Sequence 97000, A	773	19	1.1	19	1	US-11-101-244-97073	Sequence 97073, A
701	19	1.1	19	1	US-11-101-244-97001	Sequence 97001, A	774	19	1.1	19	1	US-11-101-244-97074	Sequence 97074, A
702	19	1.1	19	1	US-11-101-244-97002	Sequence 97002, A	775	19	1.1	19	1	US-11-101-244-97075	Sequence 97075, A
703	19	1.1	19	1	US-11-101-244-97003	Sequence 97003, A	776	19	1.1	19	1	US-11-101-244-97076	Sequence 97076, A
704	19	1.1	19	1	US-11-101-244-97004	Sequence 97004, A	777	19	1.1	19	1	US-11-101-244-97077	Sequence 97077, A
705	19	1.1	19	1	US-11-101-244-97005	Sequence 97005, A	778	19	1.1	19	1	US-11-101-244-97078	Sequence 97078, A
706	19	1.1	19	1	US-11-101-244-97006	Sequence 97006, A	779	19	1.1	19	1	US-11-101-244-97079	Sequence 97079, A
707	19	1.1	19	1	US-11-101-244-97007	Sequence 97007, A	780	19	1.1	19	1	US-11-101-244-97080	Sequence 97080, A
708	19	1.1	19	1	US-11-101-244-97008	Sequence 97008, A	781	19	1.1	19	1	US-11-101-244-97081	Sequence 97081, A
709	19	1.1	19	1	US-11-101-244-97009	Sequence 97009, A	782	19	1.1	19	1	US-11-101-244-97082	Sequence 97082, A
710	19	1.1	19	1	US-11-101-244-97010	Sequence 97010, A	783	19	1.1	19	1	US-11-101-244-97083	Sequence 97083, A
711	19	1.1	19	1	US-11-101-244-97011	Sequence 97011, A	784	19	1.1	19	1	US-11-101-244-97084	Sequence 97084, A
712	19	1.1	19	1	US-11-101-244-97012	Sequence 97012, A	785	19	1.1	19	1	US-11-101-244-97085	Sequence 97085, A
713	19	1.1	19	1	US-11-101-244-97013	Sequence 97013, A	786	19	1.1	19	1	US-11-101-244-97086	Sequence 97086, A
714	19	1.1	19	1	US-11-101-244-97014	Sequence 97014, A	787	19	1.1	19	1	US-11-101-244-97087	Sequence 97087, A
715	19	1.1	19	1	US-11-101-244-97015	Sequence 97015, A	788	19	1.1	19	1	US-11-101-244-97088	Sequence 97088, A
716	19	1.1	19	1	US-11-101-244-97016	Sequence 97016, A	789	19	1.1	19	1	US-11-101-244-97089	Sequence 97089, A
717	19	1.1	19	1	US-11-101-244-97017	Sequence 97017, A	790	19	1.1	19	1	US-11-101-244-97090	Sequence 97090, A
718	19	1.1	19	1	US-11-101-244-97018	Sequence 97018, A	791	19	1.1	19	1	US-11-101-244-97091	Sequence 97091, A
719	19	1.1	19	1	US-11-101-244-97019	Sequence 97019, A	792	19	1.1	19	1	US-11-101-244-97092	Sequence 97092, A
720	19	1.1	19	1	US-11-101-244-97020	Sequence 97020, A	793	19	1.1	19	1	US-11-101-244-97093	Sequence 97093, A
721	19	1.1	19	1	US-11-101-244-97021	Sequence 97021, A	794	19	1.1	19	1	US-11-101-244-97094	Sequence 97094, A
722	19	1.1	19	1	US-11-101-244-97022	Sequence 97022, A	795	19	1.1	19	1	US-11-101-244-97095	Sequence 97095, A
723	19	1.1	19	1	US-11-101-244-97023	Sequence 97023, A	796	19	1.1	19	1	US-11-101-244-97096	Sequence 97096, A
724	19	1.1	19	1	US-11-101-244-97024	Sequence 97024, A	797	19	1.1	19	1	US-11-101-244-97097	Sequence 97097, A
725	19	1.1	19	1	US-11-101-244-97025	Sequence 97025, A	798	19	1.1	19	1	US-11-101-244-97098	Sequence 97098, A
726	19	1.1	19	1	US-11-101-244-97026	Sequence 97026, A	799	19	1.1	19	1	US-11-127-877-145	Sequence 145, App
727	19	1.1	19	1	US-11-101-244-97027	Sequence 97027, A	800	19	1.1	19	1	US-11-127-877-146	Sequence 146, App
728	19	1.1	19	1	US-11-101-244-97028	Sequence 97028, A	801	19	1.1	19	1	US-11-127-877-147	Sequence 147, App
729	19	1.1	19	1	US-11-101-244-97029	Sequence 97029, A	802	19	1.1	19	1	US-10-798-090-207	Sequence 207, App
730	19	1.1	19	1	US-11-101-244-97030	Sequence 97030, A	803	19	1.1	19	1	US-10-798-090-208	Sequence 208, App
731	19	1.1	19	1	US-11-101-244-97031	Sequence 97031, A	804	19	1.1	21	1	US-10-798-090-209	Sequence 209, App
732	19	1.1	19	1	US-11-101-244-97032	Sequence 97032, A	805	19	1.1	21	1	US-10-798-090-210	Sequence 210, App
733	19	1.1	19	1	US-11-101-244-97033	Sequence 97033, A	806	19	1.1	21	1	US-10-798-090-211	Sequence 211, App
734	19	1.1	19	1	US-11-101-244-97034	Sequence 97034, A	807	19	1.1	21	1	US-10-798-090-212	Sequence 212, App
735	19	1.1	19	1	US-11-101-244-97035	Sequence 97035, A	808	19	1.1	21	1	US-10-798-090-213	Sequence 213, App
736	19	1.1	19	1	US-11-101-244-97036	Sequence 97036, A	809	19	1.1	21	1	US-10-798-090-214	Sequence 214, App
737	19	1.1	19	1	US-11-101-244-97037	Sequence 97037, A	810	19	1.1	21	1	US-10-798-090-215	Sequence 215, App
738	19	1.1	19	1	US-11-101-244-97038	Sequence 97038, A	811	19	1.1	21	1	US-10-798-090-216	Sequence 216, App
739	19	1.1	19	1	US-11-101-244-97039	Sequence 97039, A	812	19	1.1	21	1	US-10-798-090-217	Sequence 217, App
740	19	1.1	19	1	US-11-101-244-97040	Sequence 97040, A	813	19	1.1	21	1	US-10-798-090-218	Sequence 218, App
741	19	1.1	19	1	US-11-101-244-97041	Sequence 97041, A	814	19	1.1	21	1	US-10-798-090-219	Sequence 219, App
742	19	1.1	19	1	US-11-101-244-97042	Sequence 97042, A	815	19	1.1	21	1	US-10-798-090-220	Sequence 220, App
743	19	1.1	19	1	US-11-101-244-97043	Sequence 97043, A	816	19	1.1	21	1	US-10-798-090-221	Sequence 221, App
744	19	1.1	19	1	US-11-101-244-97044	Sequence 97044, A	817	19	1.1	21	1	US-10-798-090-222	Sequence 222, App
745	19	1.1	19	1	US-11-101-244-97045	Sequence 97045, A	818	19	1.1	21	1	US-10-798-090-223	Sequence 223, App
746	19	1.1	19	1	US-11-101-244-97046	Sequence 97046, A	819	19	1.1	21	1	US-10-798-090-224	Sequence 224, App
747	19	1.1	19	1	US-11-101-244-97047	Sequence 97047, A	820	19	1.1	21	1	US-10-798-090-225	Sequence 225, App
748	19	1.1	19	1	US-11-101-244-97048	Sequence 97048, A	821	19	1.1	21	1	US-10-798-090-226	Sequence 226, App
749	19	1.1	19	1	US-11-101-244-97049	Sequence 97049, A	822	19	1.1	21	1	US-10-798-090-227	Sequence 227, App
750	19	1.1	19	1	US-11-101-244-97050	Sequence 97050, A	823	19	1.1	21	1	US-10-798-090-228	Sequence 228, App
751	19	1.1	19	1	US-11-101-244-97051	Sequence 97051, A	824	19	1.1	21	1	US-10-798-090-229	Sequence 229, App
752	19	1.1	19	1	US-11-101-244-97052	Sequence 97052, A	825	19	1.1	21	1	US-10-798-090-230	Sequence 230, App
753	19	1.1	19	1	US-11-101-244-97053	Sequence 97053, A	826	19	1.1	21	1	US-10-798-090-231	Sequence 231, App
754	19	1.1	19	1	US-11-101-244-97054	Sequence 97054, A	827	19	1.1	21	1	US-10-798-090-232	Sequence 232, App
755	19	1.1	19	1	US-11-101-244-97055	Sequence 97055, A	828	19	1.1	21	1	US-10-798-090-233	Sequence 233, App
756	19	1.1	19	1	US-11-101-244-97056	Sequence 97056, A	829	19	1.1	21	1	US-10-798-090-234	Sequence 234, App
757	19	1.1	19	1	US-11-101-244-97057	Sequence 97057, A	830	19	1.1	21	1	US-10-798-090-235	Sequence 235, App
758	19	1.1	19	1	US-11-101-244-97058	Sequence 97058, A	831	19	1.1	21	1	US-10-798-090-236	Sequence 236, App
759	19	1.1	19	1	US-11-101-244-97059	Sequence 97059, A	832	19	1.1	21	1	US-10-798-090-237	Sequence 237, App
760	19	1.1	19	1	US-11-101-244-97060	Sequence 97060, A	833	19	1.1	21	1	US-10-798-090-238	Sequence 238, App
761	19	1.1	19	1	US-11-101-244-97061	Sequence 97061, A	834	19	1.1	21	1	US-10-798-090-239	Sequence 239, App
762	19	1.1	19	1	US-11-101-244-97062	Sequence 97062, A	835	19	1.1	21	1	US-10-798-090-240	Sequence 240, App
763	19	1.1	19	1	US-11-101-244-97063	Sequence 97063, A	836	19	1.1	21	1	US-10-798-090-241	Sequence 241, App

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C 985	19	1.1	21	1	US-10-919-866-300	Sequence 300, App
C 986	19	1.1	21	1	US-10-919-866-301	Sequence 301, App
C 987	19	1.1	21	1	US-10-919-866-302	Sequence 302, App
C 988	19	1.1	21	1	US-10-919-866-312	Sequence 312, App
C 989	19	1.1	21	1	US-10-919-866-313	Sequence 313, App
C 990	19	1.1	21	1	US-10-919-866-314	Sequence 314, App
C 991	19	1.1	21	1	US-10-919-866-315	Sequence 315, App
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C 994	19	1.1	21	1	US-10-919-866-318	Sequence 318, App
C 995	19	1.1	21	1	US-10-919-866-319	Sequence 319, App
C 996	19	1.1	21	1	US-10-919-866-320	Sequence 320, App
C 997	18.8	1.1	22	1	US-10-310-914A-446812	Sequence 446812, App
C 998	18	1.0	19	1	US-10-871-137-2	Sequence 2, Appl1
C 999	18	1.0	19	1	US-11-083-784-97104	Sequence 97104, A
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C1002	17.8	1.0	21	1	US-10-310-914A-1189557	Sequence 1189557, A
C1003	17.8	1.0	21	1	US-10-310-914A-1352943	Sequence 1352943, A
C1004	17.8	1.0	22	1	US-10-942-865-234	Sequence 234, App
C1005	17.8	1.0	22	1	US-10-310-914A-1189555	Sequence 1189555, A
C1006	17.8	1.0	22	1	US-10-310-914A-1352927	Sequence 1352927, A
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1012	17.4	1.0	19	1	US-11-083-784-96897	Sequence 96897, A
1013	17.4	1.0	19	1	US-11-083-784-97147	Sequence 97147, A
1014	17.4	1.0	19	1	US-11-083-784-574416	Sequence 574416, A
1015	17.4	1.0	19	1	US-11-083-784-738029	Sequence 738029, A
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1017	17.4	1.0	19	1	US-11-101-244-14354	Sequence 14354, A
1018	17.4	1.0	19	1	US-11-101-244-96787	Sequence 96787, A
1019	17.4	1.0	19	1	US-11-101-244-96842	Sequence 96842, A
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1023	17.4	1.0	19	1	US-11-101-244-97147	Sequence 97147, A
1024	17.4	1.0	19	1	US-11-101-244-574416	Sequence 574416, A
1025	17.4	1.0	19	1	US-11-101-244-738029	Sequence 738029, A
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C1028	17.4	1.0	20	1	US-10-310-914A-1387018	Sequence 1387018, A
C1029	17.4	1.0	20	1	US-11-041-456-14	Sequence 14, Appl1
C1030	17.4	1.0	21	1	US-10-770-726-20980	Sequence 20980, A
C1031	17	1.0	17	1	US-10-676-154-105	Sequence 105, App
C1032	17	1.0	20	1	US-10-310-914A-1356690	Sequence 1356690, A
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C1043	16.8	0.9	21	1	US-09-967-726A-2	Sequence 2, Appl1
C1044	16.8	0.9	21	1	US-10-080-794-2	Sequence 2, Appl1
C1045	16.8	0.9	21	1	US-10-786-720-8032	Sequence 8032, App
1046	16.8	0.9	21	1	US-10-786-720-8034	Sequence 8034, App
C1047	16.8	0.9	21	1	US-10-786-720-10264	Sequence 10264, A
C1048	16.8	0.9	21	1	US-10-786-720-10266	Sequence 10266, A
C1049	16.8	0.9	21	1	US-10-828-394-3	Sequence 3, Appl1
C1050	16.8	0.9	21	1	US-10-828-395-3	Sequence 3, Appl1
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C1052	16.8	0.9	21	1	US-10-770-726-2392	Sequence 2392, App
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C1060	16.8	0.9	21	1	US-11-183-486-2	Sequence 2, Appl1
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C1074	16.4	0.9	19	1	US-11-083-784-82258	Sequence 82258, A
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C1090	16.4	0.9	19	1	US-11-083-784-1422087	Sequence 1422087, A
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C1104	16.4	0.9	19	1	US-11-101-244-829653	Sequence 829653, A
C1105	16.4	0.9	19	1	US-11-101-244-875701	Sequence 875701, A
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C1112	16.4	0.9	19	1	US-11-101-244-1422087	Sequence 1422087, A
C1113	16.4	0.9	19	1	US-11-110-274-540	Sequence 540, App
C1114	16.4	0.9	19	1	US-11-176-026A-33	Sequence 33, Appl1
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1127	16	0.9	19	1	US-11-101-244-1537374	Sequence 1537374, A
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c1132	15.8	0.9	19	1	US-10-056-229-155	Sequence 155, App
c1133	15.8	0.9	19	1	US-10-444-925-126	Sequence 126, App
c1134	15.8	0.9	19	1	US-10-750-185-18826	Sequence 18826, A
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1138	15.8	0.9	19	1	US-10-310-914A-302115	Sequence 302115,
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c1141	15.8	0.9	19	1	US-10-310-914A-605977	Sequence 605977,
c1142	15.8	0.9	19	1	US-10-310-914A-608678	Sequence 608678,
c1143	15.8	0.9	19	1	US-10-310-914A-629308	Sequence 629308,
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1145	15.8	0.9	19	1	US-10-310-914A-647405	Sequence 647405,
1146	15.8	0.9	19	1	US-10-310-914A-670737	Sequence 670737,
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1153	15.8	0.9	19	1	US-11-071-864-72	Sequence 72, Appl
c1154	15.8	0.9	19	1	US-11-083-784-14368	Sequence 14368, A
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1157	15.8	0.9	19	1	US-11-083-784-15086	Sequence 15128, A
c1158	15.8	0.9	19	1	US-11-083-784-15128	Sequence 15128, A
c1159	15.8	0.9	19	1	US-11-083-784-22214	Sequence 22214, A
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1164	15.8	0.9	19	1	US-11-083-784-52520	Sequence 52520, A
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1168	15.8	0.9	19	1	US-11-083-784-52901	Sequence 52901, A
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c1171	15.8	0.9	19	1	US-11-083-784-96770	Sequence 96770, A
1172	15.8	0.9	19	1	US-11-083-784-96775	Sequence 96775, A
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1180	15.8	0.9	19	1	US-11-083-784-97144	Sequence 97144, A
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1186	15.8	0.9	19	1	US-11-083-784-222321	Sequence 222321,
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1188	15.8	0.9	19	1	US-11-083-784-391588	Sequence 391588,
c1189	15.8	0.9	19	1	US-11-083-784-409997	Sequence 409997,
1190	15.8	0.9	19	1	US-11-083-784-417946	Sequence 417946,
c1191	15.8	0.9	19	1	US-11-083-784-462391	Sequence 462391,
1192	15.8	0.9	19	1	US-11-083-784-482025	Sequence 482025,
c1193	15.8	0.9	19	1	US-11-083-784-51801	Sequence 51801,
1194	15.8	0.9	19	1	US-11-083-784-535685	Sequence 535685,
c1195	15.8	0.9	19	1	US-11-083-784-576464	Sequence 576464,
1196	15.8	0.9	19	1	US-11-083-784-581851	Sequence 581851,
c1197	15.8	0.9	19	1	US-11-083-784-581953	Sequence 581953,
1198	15.8	0.9	19	1	US-11-083-784-640147	Sequence 640147,
c1199	15.8	0.9	19	1	US-11-083-784-645531	Sequence 645531,
c1200	15.8	0.9	19	1	US-11-083-784-653396	Sequence 653396,
c1201	15.8	0.9	19	1	US-11-083-784-653423	Sequence 653423,
c1202	15.8	0.9	19	1	US-11-083-784-661229	Sequence 661229,
c1203	15.8	0.9	19	1	US-11-083-784-691453	Sequence 691453,
c1204	15.8	0.9	19	1	US-11-083-784-691532	Sequence 691532,
1205	15.8	0.9	19	1	US-11-083-784-770039	Sequence 770039,
c1206	15.8	0.9	19	1	US-11-083-784-771283	Sequence 771283,
1207	15.8	0.9	19	1	US-11-083-784-819337	Sequence 819337,
1208	15.8	0.9	19	1	US-11-083-784-845076	Sequence 845076,
c1210	15.8	0.9	19	1	US-11-083-784-860780	Sequence 860780,
c1211	15.8	0.9	19	1	US-11-083-784-878444	Sequence 878444,
c1212	15.8	0.9	19	1	US-11-083-784-891418	Sequence 891418,
c1213	15.8	0.9	19	1	US-11-083-784-905909	Sequence 905909,
c1214	15.8	0.9	19	1	US-11-083-784-910052	Sequence 910052,
1215	15.8	0.9	19	1	US-11-083-784-910552	Sequence 910552,
1216	15.8	0.9	19	1	US-11-083-784-941970	Sequence 941970,
c1217	15.8	0.9	19	1	US-11-083-784-941970	Sequence 941970,
c1218	15.8	0.9	19	1	US-11-083-784-1035710	Sequence 1035710,
c1219	15.8	0.9	19	1	US-11-083-784-1038110	Sequence 1038110,
c1220	15.8	0.9	19	1	US-11-083-784-1052051	Sequence 1052051,
c1221	15.8	0.9	19	1	US-11-083-784-1052055	Sequence 1052055,
c1222	15.8	0.9	19	1	US-11-083-784-1082966	Sequence 1082966,
1223	15.8	0.9	19	1	US-11-083-784-1095950	Sequence 1095950,
c1224	15.8	0.9	19	1	US-11-083-784-1143713	Sequence 1143713,
c1225	15.8	0.9	19	1	US-11-083-784-1202166	Sequence 1202166,
c1226	15.8	0.9	19	1	US-11-083-784-1237713	Sequence 1237713,
c1227	15.8	0.9	19	1	US-11-083-784-1267942	Sequence 1267942,
1228	15.8	0.9	19	1	US-11-083-784-1302272	Sequence 1302272,
c1229	15.8	0.9	19	1	US-11-083-784-1312578	Sequence 1312578,
c1230	15.8	0.9	19	1	US-11-083-784-1348446	Sequence 1348446,
c1231	15.8	0.9	19	1	US-11-083-784-1353039	Sequence 1353039,
c1232	15.8	0.9	19	1	US-11-083-784-1372117	Sequence 1372117,
1233	15.8	0.9	19	1	US-11-083-784-1393220	Sequence 1393220,
c1234	15.8	0.9	19	1	US-11-083-784-143908	Sequence 143908,
c1235	15.8	0.9	19	1	US-11-083-784-1450139	Sequence 1450139,
c1236	15.8	0.9	19	1	US-11-083-784-1462725	Sequence 1462725,
c1237	15.8	0.9	19	1	US-11-083-784-1462771	Sequence 1462771,
c1238	15.8	0.9	19	1	US-11-083-784-1466188	Sequence 1466188,
1239	15.8	0.9	19	1	US-11-083-784-1496063	Sequence 1496063,
c1240	15.8	0.9	19	1	US-11-083-784-1526168	Sequence 1526168,
c1241	15.8	0.9	19	1	US-11-083-784-1540139	Sequence 1540139,
c1242	15.8	0.9	19	1	US-11-083-784-1555890	Sequence 1555890,
c1243	15.8	0.9	19	1	US-11-083-784-1567851	Sequence 1567851,
c1244	15.8	0.9	19	1	US-11-083-784-1571143	Sequence 1571143,
c1245	15.8	0.9	19	1	US-11-083-784-1586104	Sequence 1586104,
c1246	15.8	0.9	19	1	US-11-083-784-1586107	Sequence 1586107,
c1247	15.8	0.9	19	1	US-11-083-784-1586158	Sequence 1586158,
1248	15.8	0.9	19	1	US-11-101-244-14368	Sequence 14368, A
1249	15.8	0.9	19	1	US-11-101-244-14415	Sequence 14415, A
1250	15.8	0.9	19	1	US-11-101-244-15086	Sequence 15086, A
c1251	15.8	0.9	19	1	US-11-101-244-15128	Sequence 15128, A
c1252	15.8	0.9	19	1	US-11-101-244-22214	Sequence 22214, A
1253	15.8	0.9	19	1	US-11-101-244-25249	Sequence 25249, A
c1254	15.8	0.9	19	1	US-11-101-244-25349	Sequence 25349, A
1255	15.8	0.9	19	1	US-11-101-244-45869	Sequence 45869, A
1256	15.8	0.9	19	1	US-11-101-244-52520	Sequence 52520, A
1257	15.8	0.9	19	1	US-11-101-244-52520	Sequence 52520, A
1258	15.8	0.9	19	1	US-11-101-244-52639	Sequence 52639, A
1259	15.8	0.9	19	1	US-11-101-244-52708	Sequence 52708, A
1260	15.8	0.9	19	1	US-11-101-244-52803	Sequence 52803, A
1261	15.8	0.9	19	1	US-11-101-244-52901	Sequence 52901, A
1262	15.8	0.9	19	1	US-11-101-244-86473	Sequence 86473, A
1263	15.8	0.9	19	1	US-11-101-244-96765	Sequence 96765, A
1264	15.8	0.9	19	1	US-11-101-244-96775	Sequence 96775, A
1265	15.8	0.9	19	1	US-11-101-244-96775	Sequence 96775, A
1266	15.8	0.9	19	1	US-11-101-244-96789	Sequence 96789, A
1267	15.8	0.9	19	1	US-11-101-244-96792	Sequence 96792, A
1268	15.8	0.9	19	1	US-11-101-244-96794	Sequence 96794, A
1269	15.8	0.9	19	1	US-11-101-244-96795	Sequence 96795, A
1270	15.8	0.9	19	1	US-11-101-244-96884	Sequence 96884, A
1271	15.8	0.9	19	1	US-11-101-244-97127	Sequence 97127, A
1272	15.8	0.9	19	1	US-11-101-244-97132	Sequence 97132, A
1273	15.8	0.9	19	1	US-11-101-244-97144	Sequence 97144, A
1274	15.8	0.9	19	1	US-11-101-244-97252	Sequence 97252, A

c1275	15.8	0.9	19	1	US-11-101-244-155844	Sequence 155844,	1348	15.4	0.9	18	1	US-10-740-926-187	Sequence 187, App
c1276	15.8	0.9	19	1	US-11-101-244-193107	Sequence 193107,	1349	15.4	0.9	18	1	US-10-310-914A-14756	Sequence 44756, A
c1277	15.8	0.9	19	1	US-11-101-244-214402	Sequence 214402,	1350	15.4	0.9	18	1	US-10-310-914A-101513	Sequence 101513,
1278	15.8	0.9	19	1	US-11-101-244-22230	Sequence 22230,	1351	15.4	0.9	18	1	US-10-310-914A-114172	Sequence 114172,
1279	15.8	0.9	19	1	US-11-101-244-22321	Sequence 22321,	1352	15.4	0.9	18	1	US-10-310-914A-114173	Sequence 114173,
1280	15.8	0.9	19	1	US-11-101-244-343052	Sequence 343052,	1353	15.4	0.9	18	1	US-10-310-914A-159541	Sequence 159541,
c1281	15.8	0.9	19	1	US-11-101-244-391588	Sequence 391588,	c1354	15.4	0.9	18	1	US-10-310-914A-172099	Sequence 172099,
1282	15.8	0.9	19	1	US-11-101-244-409997	Sequence 409997,	1355	15.4	0.9	18	1	US-10-310-914A-254139	Sequence 254139,
1283	15.8	0.9	19	1	US-11-101-244-417946	Sequence 417946,	1356	15.4	0.9	18	1	US-10-310-914A-284580	Sequence 284580,
c1284	15.8	0.9	19	1	US-11-101-244-462391	Sequence 462391,	c1357	15.4	0.9	18	1	US-10-310-914A-630021	Sequence 630021,
1285	15.8	0.9	19	1	US-11-101-244-482025	Sequence 482025,	c1358	15.4	0.9	18	1	US-10-310-914A-738321	Sequence 738321,
1286	15.8	0.9	19	1	US-11-101-244-514801	Sequence 514801,	1359	15.4	0.9	18	1	US-10-310-914A-793976	Sequence 793976,
1287	15.8	0.9	19	1	US-11-101-244-535685	Sequence 535685,	c1360	15.4	0.9	18	1	US-10-310-914A-907246	Sequence 907246,
c1288	15.8	0.9	19	1	US-11-101-244-576464	Sequence 576464,	c1361	15.4	0.9	18	1	US-10-310-914A-93182	Sequence 93182,
c1289	15.8	0.9	19	1	US-11-101-244-581851	Sequence 581851,	c1362	15.4	0.9	18	1	US-10-310-914A-958139	Sequence 958139,
c1290	15.8	0.9	19	1	US-11-101-244-581953	Sequence 581953,	c1363	15.4	0.9	18	1	US-10-310-914A-1087769	Sequence 1087769,
1291	15.8	0.9	19	1	US-11-101-244-640147	Sequence 640147,	c1364	15.4	0.9	18	1	US-10-310-914A-1267042	Sequence 1267042,
c1292	15.8	0.9	19	1	US-11-101-244-645531	Sequence 645531,	1365	15.4	0.9	19	1	US-10-349-143-6934	Sequence 6934, Ap
c1293	15.8	0.9	19	1	US-11-101-244-653396	Sequence 653396,	1366	15.4	0.9	19	1	US-10-310-914A-313799	Sequence 313799,
c1294	15.8	0.9	19	1	US-11-101-244-653423	Sequence 653423,	1367	15.4	0.9	19	1	US-10-310-914A-344052	Sequence 344052,
c1295	15.8	0.9	19	1	US-11-101-244-661229	Sequence 661229,	1368	15.4	0.9	19	1	US-10-310-914A-344052	Sequence 344052,
c1296	15.8	0.9	19	1	US-11-101-244-691453	Sequence 691453,	c1369	15.4	0.9	19	1	US-10-310-914A-484813	Sequence 484813,
c1297	15.8	0.9	19	1	US-11-101-244-691532	Sequence 691532,	c1370	15.4	0.9	19	1	US-10-310-914A-598899	Sequence 598899,
1298	15.8	0.9	19	1	US-11-101-244-770039	Sequence 770039,	1371	15.4	0.9	19	1	US-10-310-914A-1061923	Sequence 1061923,
c1299	15.8	0.9	19	1	US-11-101-244-771283	Sequence 771283,	c1372	15.4	0.9	19	1	US-10-310-914A-1157469	Sequence 1157469,
1300	15.8	0.9	19	1	US-11-101-244-813337	Sequence 813337,	1373	15.4	0.9	19	1	US-11-083-784-96831	Sequence 96831, A
1301	15.8	0.9	19	1	US-11-101-244-845076	Sequence 845076,	1374	15.4	0.9	19	1	US-11-083-784-97156	Sequence 97156, A
1302	15.8	0.9	19	1	US-11-101-244-860780	Sequence 860780,	1375	15.4	0.9	19	1	US-11-083-784-97216	Sequence 97216, A
c1303	15.8	0.9	19	1	US-11-101-244-878444	Sequence 878444,	c1376	15.4	0.9	19	1	US-11-083-784-103182	Sequence 103182,
1304	15.8	0.9	19	1	US-11-101-244-891418	Sequence 891418,	c1377	15.4	0.9	19	1	US-11-083-784-103182	Sequence 103182,
c1305	15.8	0.9	19	1	US-11-101-244-909909	Sequence 909909,	1378	15.4	0.9	19	1	US-11-083-784-131581	Sequence 131581,
c1306	15.8	0.9	19	1	US-11-101-244-910002	Sequence 910002,	c1379	15.4	0.9	19	1	US-11-083-784-164314	Sequence 164314,
c1307	15.8	0.9	19	1	US-11-101-244-910052	Sequence 910052,	1380	15.4	0.9	19	1	US-11-083-784-220921	Sequence 220921,
1308	15.8	0.9	19	1	US-11-101-244-941780	Sequence 941780,	c1381	15.4	0.9	19	1	US-11-083-784-234743	Sequence 234743,
1309	15.8	0.9	19	1	US-11-101-244-941970	Sequence 941970,	c1382	15.4	0.9	19	1	US-11-083-784-234762	Sequence 234762,
c1310	15.8	0.9	19	1	US-11-101-244-1025710	Sequence 1025710,	c1383	15.4	0.9	19	1	US-11-083-784-240931	Sequence 240931,
c1311	15.8	0.9	19	1	US-11-101-244-1038110	Sequence 1038110,	c1384	15.4	0.9	19	1	US-11-083-784-259725	Sequence 259725,
c1312	15.8	0.9	19	1	US-11-101-244-1052031	Sequence 1052031,	c1385	15.4	0.9	19	1	US-11-083-784-259762	Sequence 259762,
c1313	15.8	0.9	19	1	US-11-101-244-1052055	Sequence 1052055,	1386	15.4	0.9	19	1	US-11-083-784-289369	Sequence 289369,
1314	15.8	0.9	19	1	US-11-101-244-1082966	Sequence 1082966,	1387	15.4	0.9	19	1	US-11-083-784-345636	Sequence 345636,
1315	15.8	0.9	19	1	US-11-101-244-1095950	Sequence 1095950,	c1388	15.4	0.9	19	1	US-11-083-784-394748	Sequence 394748,
1316	15.8	0.9	19	1	US-11-101-244-113713	Sequence 113713,	c1389	15.4	0.9	19	1	US-11-083-784-430047	Sequence 430047,
c1317	15.8	0.9	19	1	US-11-101-244-1202136	Sequence 1202136,	c1390	15.4	0.9	19	1	US-11-083-784-430081	Sequence 430081,
1318	15.8	0.9	19	1	US-11-101-244-1237713	Sequence 1237713,	c1391	15.4	0.9	19	1	US-11-083-784-430146	Sequence 430146,
c1319	15.8	0.9	19	1	US-11-101-244-1267883	Sequence 1267883,	c1392	15.4	0.9	19	1	US-11-083-784-440174	Sequence 440174,
c1320	15.8	0.9	19	1	US-11-101-244-1267942	Sequence 1267942,	c1393	15.4	0.9	19	1	US-11-083-784-446009	Sequence 446009,
1321	15.8	0.9	19	1	US-11-101-244-1312578	Sequence 1312578,	1394	15.4	0.9	19	1	US-11-083-784-496206	Sequence 496206,
1322	15.8	0.9	19	1	US-11-101-244-1348446	Sequence 1348446,	1395	15.4	0.9	19	1	US-11-083-784-496206	Sequence 496206,
c1323	15.8	0.9	19	1	US-11-101-244-1365309	Sequence 1365309,	1396	15.4	0.9	19	1	US-11-083-784-496333	Sequence 496333,
1324	15.8	0.9	19	1	US-11-101-244-1372117	Sequence 1372117,	1397	15.4	0.9	19	1	US-11-083-784-496333	Sequence 496333,
1325	15.8	0.9	19	1	US-11-101-244-1393220	Sequence 1393220,	1398	15.4	0.9	19	1	US-11-083-784-498733	Sequence 498733,
1326	15.8	0.9	19	1	US-11-101-244-14343908	Sequence 14343908,	1399	15.4	0.9	19	1	US-11-083-784-498733	Sequence 498733,
c1328	15.8	0.9	19	1	US-11-101-244-1450263	Sequence 1450263,	c1400	15.4	0.9	19	1	US-11-083-784-525658	Sequence 525658,
c1329	15.8	0.9	19	1	US-11-101-244-1462725	Sequence 1462725,	1401	15.4	0.9	19	1	US-11-083-784-531548	Sequence 531548,
c1330	15.8	0.9	19	1	US-11-101-244-1462771	Sequence 1462771,	1402	15.4	0.9	19	1	US-11-083-784-552201	Sequence 552201,
c1331	15.8	0.9	19	1	US-11-101-244-1463183	Sequence 1466198,	1403	15.4	0.9	19	1	US-11-083-784-552292	Sequence 552292,
1332	15.8	0.9	19	1	US-11-101-244-1496063	Sequence 1496063,	c1405	15.4	0.9	19	1	US-11-083-784-581822	Sequence 581822,
c1333	15.8	0.9	19	1	US-11-101-244-1526168	Sequence 1526168,	c1406	15.4	0.9	19	1	US-11-083-784-581875	Sequence 581875,
c1334	15.8	0.9	19	1	US-11-101-244-1540139	Sequence 1540139,	c1407	15.4	0.9	19	1	US-11-083-784-581922	Sequence 581922,
c1335	15.8	0.9	19	1	US-11-101-244-1555830	Sequence 1555830,	c1408	15.4	0.9	19	1	US-11-083-784-581978	Sequence 581978,
c1336	15.8	0.9	19	1	US-11-101-244-1567851	Sequence 1567851,	c1409	15.4	0.9	19	1	US-11-083-784-588110	Sequence 588110,
c1337	15.8	0.9	19	1	US-11-101-244-1571143	Sequence 1571143,	c1410	15.4	0.9	19	1	US-11-083-784-596511	Sequence 596511,
c1338	15.8	0.9	19	1	US-11-101-244-1586104	Sequence 1586104,	1411	15.4	0.9	19	1	US-11-083-784-621759	Sequence 621759,
c1339	15.8	0.9	19	1	US-11-101-244-1586107	Sequence 1586107,	c1412	15.4	0.9	19	1	US-11-083-784-653624	Sequence 653624,
c1340	15.8	0.9	19	1	US-11-101-244-1586107	Sequence 1586107,	1413	15.4	0.9	19	1	US-11-083-784-653627	Sequence 653627,
c1341	15.4	0.9	17	1	US-09-877-478-1123	Sequence 1123, Ap	1414	15.4	0.9	19	1	US-11-083-784-702236	Sequence 702236,
c1342	15.4	0.9	17	1	US-09-877-478-1123	Sequence 1123, Ap	1415	15.4	0.9	19	1	US-11-083-784-812530	Sequence 812530,
c1343	15.4	0.9	17	1	US-10-342-902-1123	Sequence 1123, Ap	1416	15.4	0.9	19	1	US-11-083-784-826194	Sequence 826194,
c1344	15.4	0.9	17	1	US-10-342-902-1123	Sequence 1123, Ap	c1417	15.4	0.9	19	1	US-11-083-784-913509	Sequence 913509,
c1345	15.4	0.9	17	1	US-10-669-841-1123	Sequence 1123, Ap	c1418	15.4	0.9	19	1	US-11-083-784-926681	Sequence 926681,
c1346	15.4	0.9	17	1	US-10-669-841-1124	Sequence 1124, Ap	c1419	15.4	0.9	19	1	US-11-083-784-946340	Sequence 946340,
c1347	15.4	0.9	18	1	US-10-449-801A-2	Sequence 2, Appl	1420	15.4	0.9	19	1	US-11-083-784-963463	Sequence 963463,

c1421	15.4	0.9	19	1	US-11-083-784-966672	Sequence 968672,
c1422	15.4	0.9	19	1	US-11-083-784-968744	Sequence 968744,
1423	15.4	0.9	19	1	US-11-083-784-1062866	Sequence 1062866,
1424	15.4	0.9	19	1	US-11-083-784-1085933	Sequence 1085933,
1425	15.4	0.9	19	1	US-11-083-784-1092663	Sequence 1092663,
1426	15.4	0.9	19	1	US-11-083-784-1092769	Sequence 1092769,
1427	15.4	0.9	19	1	US-11-083-784-1136074	Sequence 1136074,
1428	15.4	0.9	19	1	US-11-083-784-1153902	Sequence 1153902,
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ALIGNMENTS

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; Publication No. US20030204073A1
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Brünsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826, 509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195, 747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170, 496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 279
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; TYPE: DNA
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US-09-826-509-279
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; Publication No. US20030204073A1
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Brünsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826, 509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195, 747
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; NUMBER OF SEQ ID NOS: 589
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Best Local Similarity 83.8%; Pred. No. 91; Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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US-10-925-095-279
; Sequence 279, Application US/10925095
; Publication No. US20050019840A1
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Brünsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Non-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/10/925, 095
; CURRENT FILING DATE: 2004-08-24
; PRIOR APPLICATION NUMBER: US/09/826, 509
; PRIOR FILING DATE: 2001-04-05
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; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
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; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
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US-11-060-756-32251

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; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
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; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
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US-11-060-756-32253

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; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
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US-11-060-756-32254

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1647 AACAUUCAGAACCACTUUCAGAU 1671
DB      1 AACATTGAGAACCACTTCAAGATG 25

RESULT 12
US-11-060-756-32255
; Sequence 32255, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32255
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32255

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 56.0%; Pred. No. 2e+02;
Matches 14; Conservative 11; Mismatches 0; Indels 0; Gaps 0;

QY      1486 AUCUUCGUGCCUUCAGUACUCU 1510
DB      1 ACTTCTGCTGCTTCAATCACTACTT 25

RESULT 13
US-11-060-756-32256
; Sequence 32256, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
```

;; TITLE OF INVENTION: Target Genes
;; FILE REFERENCE: AM101083 (031896-042000)
;; CURRENT APPLICATION NUMBER: US/11/060,756
;; CURRENT FILING DATE: 2005-02-18
;; NUMBER OF SEQ ID NOS: 303284
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 32256
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: probe
US-11-060-756-32256

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1646 AAGACATTCAGAACCACTTCAAGAT 1670
DB 1 AAGACATTCAGAACCACTTCAAGAT 25

RESULT 14
US-11-060-756-32257

;; Sequence 32257, Application US/11060756
;; Publication No. US20050221354A1
;; GENERAL INFORMATION:
;; APPLICANT: Wyeth
;; APPLICANT: Mounts, William Martin
;; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
;; FILE REFERENCE: AM101083 (031896-042000)
;; CURRENT APPLICATION NUMBER: US/11/060,756
;; CURRENT FILING DATE: 2005-02-18
;; NUMBER OF SEQ ID NOS: 303284
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 32257
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: probe
US-11-060-756-32257

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1408 AAGACGAGAGGACGACGATCAAGC 1432
DB 1 AAGACGAGAGGACGATCAAGC 25

RESULT 15
US-11-060-756-32258

;; Sequence 32258, Application US/11060756
;; Publication No. US20050221354A1
;; GENERAL INFORMATION:
;; APPLICANT: Wyeth
;; APPLICANT: Mounts, William Martin
;; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
;; FILE REFERENCE: AM101083 (031896-042000)
;; CURRENT APPLICATION NUMBER: US/11/060,756
;; CURRENT FILING DATE: 2005-02-18
;; NUMBER OF SEQ ID NOS: 303284
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 32258
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: probe
US-11-060-756-32258

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1649 CAUUCAGAACCACTTCAAGATGCT 1673
DB 1 CATTGAGAACCACTTCAAGATGCT 25

RESULT 16
US-11-060-756-32259

;; Sequence 32259, Application US/11060756
;; Publication No. US20050221354A1
;; GENERAL INFORMATION:
;; APPLICANT: Wyeth
;; APPLICANT: Mounts, William Martin
;; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
;; FILE REFERENCE: AM101083 (031896-042000)
;; CURRENT APPLICATION NUMBER: US/11/060,756
;; CURRENT FILING DATE: 2005-02-18
;; NUMBER OF SEQ ID NOS: 303284
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 32259
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: probe
US-11-060-756-32259

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1648 ACAUUCAGAACCACTTCAAGATGC 1672
DB 1 ACATTCAGAACCACTTCAAGATGC 25

RESULT 17
US-11-060-756-32260

;; Sequence 32260, Application US/11060756
;; Publication No. US20050221354A1
;; GENERAL INFORMATION:
;; APPLICANT: Wyeth
;; APPLICANT: Mounts, William Martin
;; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
;; FILE REFERENCE: AM101083 (031896-042000)
;; CURRENT APPLICATION NUMBER: US/11/060,756
;; CURRENT FILING DATE: 2005-02-18
;; NUMBER OF SEQ ID NOS: 303284
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 32260
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: probe
US-11-060-756-32260

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 56.0%; Pred. No. 2e+02;
Matches 14; Conservative 11; Mismatches 0; Indels 0; Gaps 0;

QY 1487 UCUUGGUCGCUCAUACACUUG 1511
DB 1 TCTTGCTGCTTCATCATCACTTG 25

RESULT 18
US-11-060-756-32261

;; Sequence 32261, Application US/11060756
;; Publication No. US20050221354A1
;; GENERAL INFORMATION:
;; APPLICANT: Wyeth
;; APPLICANT: Mounts, William Martin
;; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
;; FILE REFERENCE: AM101083 (031896-042000)
;; CURRENT APPLICATION NUMBER: US/11/060,756
;; CURRENT FILING DATE: 2005-02-18
;; NUMBER OF SEQ ID NOS: 303284
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 32261
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: probe
US-11-060-756-32261

```
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32261
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32261

Query Match          1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 60.0%; Pred. No. 2e+02;
Matches 15; Conservative 10; Mismatches 0; Indels 0; Gaps 0;

QY      1485 GAUCUCGUCUCCUUCACUACUACU 1509
DB      1 GATCTTGCTTGCTTCATCATCTACT 25

RESULT 19
US-11-060-756-32262
; Sequence 32262, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32262
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32262

Query Match          1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY      1650 AUUCAGAACCCUUCACAGUCUG 1674
DB      1 ATTCAGAACCACTTCAAGATGCTG 25

RESULT 20
US-11-060-756-32263
; Sequence 32263, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32263
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32263

Query Match          1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1518 AUAACAACUACUGUUCUGUAC 1542
DB      1 ATACACATCATGATGTTCTGTAAAC 25

RESULT 21
US-11-060-756-32264
; Sequence 32264, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32264
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32264

Query Match          1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1413 CAGAAGUCAGUACUACGCGAAA 1437
DB      1 CAGAACTCAGATCATCTAAGCGGAAA 25

RESULT 22
US-11-060-756-32265
; Sequence 32265, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32265
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32265

Query Match          1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1643 ACAAAACUUCAGAACCCACUUCAA 1667
DB      1 ACNAAACATTCAGAACCACTTCAA 25

RESULT 23
US-11-060-756-32266
; Sequence 32266, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
```

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; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32266
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32266

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1642 AACAAACAUUCGAGAACCAUUCU 1666
Db      1 AACAAACATTCTGAAACCACTTCA 25

RESULT 24
US-11-060-756-32267
; Sequence 32267, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32267
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32267

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1641 CACAAACAUUCGAGAACCAUUCU 1665
Db      1 CAAACAAACATTCTGAAACCACTTTC 25

RESULT 25
US-11-060-756-32268
; Sequence 32268, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32268
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32268

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1645 AAAACAUUCGAGAACCAUUCU 1669
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```
Db      1 AAAACATTCTGAGAACCACTTCA 25

RESULT 26
US-11-060-756-32269
; Sequence 32269, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32269
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32269

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1644 CAAACAUUCGAGAACCAUUCU 1668
Db      1 CAAACATTCTGAGAACCACTTCA 25

RESULT 27
US-11-060-756-32270
; Sequence 32270, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32270
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32270

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1405 CUGAAGACCAAGAGCAUUCACUA 1429
Db      1 CTGAAGACCAAGAGTCAGATCACTA 25

RESULT 28
US-11-060-756-32271
; Sequence 32271, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
```

```
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32271
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32271

Query Match
Best Local Similarity 60.0%; Pred. No. 2e+02;
Matches 15; Conservative 10; Mismatches 0; Indels 0; Gaps 0;

QY 1488 CUUCGUCGCUUACUACUACUUG 1512
1 CTTGCTTCCTTCATCATCATCTGG 25
Db

RESULT 29
US-11-060-756-32272
; Sequence 32272, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32272
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32272

Query Match
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1412 CCGAAGUCAGACUACUACCGGA 1436
1 CCGAAGTCAGATCACTAAGCGGA 25
Db

RESULT 30
US-11-060-756-32273
; Sequence 32273, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32273
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32273

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1409 AGACGAGUACUACUACUACG 1433
|||||:||||:||||:|||||
```

```
Db 1 AGACGAGATCATCACTAAGCG 25

RESULT 31
US-11-060-756-32274
; Sequence 32274, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32274
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32274

Query Match
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1640 GCAACAAAACUACUACACCUU 1664
1 GCAACAAAACATTCAGAACCACTT 25
Db

RESULT 32
US-11-060-756-32275
; Sequence 32275, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32275
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32275

Query Match
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1519 UACACAUACUUGUCUGUACA 1543
1 TACACATCATGCTCTGATGAACA 25
Db

RESULT 33
US-11-060-756-32276
; Sequence 32276, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
```


NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32276
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32276

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 16; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

Qy 1484 CGAUCUCGUCGUCUACAUCAUAC 1508
Db 1 CGATCTTGCTTGCTTCATCATCATCAC 25

RESULT 34
US-11-060-756-32277
Sequence 32277, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:

APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32277
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32277

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 15; Conservative 10; Mismatches 0; Indels 0; Gaps 0;

Qy 1489 UUGCUCGUCUACAUCAUAC 1513
Db 1 TTGCTTGCTTCATCATCATCTTGA 25

RESULT 35
US-11-060-756-32278
Sequence 32278, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:

APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32278
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32278

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1415 GAAGUCAGUACUACGCGGAAAAG 1439
Db 1 GAAGTCAGATCACTAAGCGGAAAAG 25

RESULT 36
US-11-060-756-32279

Sequence 32279, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32279
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32279

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 17; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 1567 AAAACCUUUGGAAUCUGGCGUACU 1591
Db 1 AAAACCTTTGAAATCTGGGCTACT 25

RESULT 37
US-11-060-756-32280
Sequence 32280, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:

APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32280
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32280

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1414 AGAAGUCAGUACUACGCGGAAA 1438
Db 1 AGAAGTCAGATCACTAAGCGGAAA 25

RESULT 38
US-11-060-756-32281
Sequence 32281, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:

APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284

```

; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32281
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32281

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1410 GACCGAAGUCACUAGCAGG 1434
DB 1 GACCGAAGUCACUAGCAGG 25

RESULT 39
US-11-060-756-32282
; Sequence 32282, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32282
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32282

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1651 UUCAGAACCAUCUUCAGAUCCG 1675
DB 1 TTCAGAACCACTTTCAGATGCGC 25

RESULT 40
US-11-060-756-32283
; Sequence 32283, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32283
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32283

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1516 CCAUACAACUACUAGGUCUGUGA 1540
DB 1 CCATACACATCATGCTCTGGTGA 25

; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32284
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32284

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1421 AGATCACTAAGCGGAAAGAGTGC 1445
DB 1 AGATCACTAAGCGGAAAGAGTGC 25

RESULT 42
US-11-060-756-32285
; Sequence 32285, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32285
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32285

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1419 UCAGAUCAUAGCGGAAAGAG 1443
DB 1 TCAGATCACTAAGCGGAAAGAGT 25

RESULT 43
US-11-060-756-32286
; Sequence 32286, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32286
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32286

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1419 UCAGAUCAUAGCGGAAAGAG 1443
DB 1 TCAGATCACTAAGCGGAAAGAGT 25

RESULT 43
US-11-060-756-32286
; Sequence 32286, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32286
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-32286

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1419 UCAGAUCAUAGCGGAAAGAG 1443
DB 1 TCAGATCACTAAGCGGAAAGAGT 25
```


LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32291

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1420 CAGATCAGTAAAGCGGAAAGATGT 1444
||||:||||:||||:||||:||||:||||:
DB 1 CAGATCAGTAAAGCGGAAAGATGT 25

RESULT 49
US-11-060-756-32292
Sequence 32292, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32292
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32292

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1520 ACAACATCATGTTCTGTGTAACAC 1544
||||:||||:||||:||||:||||:||||:
DB 1 ACAACATCATGTTCTGTGTAACAC 25

RESULT 50
US-11-060-756-32293
Sequence 32293, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32293
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32293

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1416 AAGUCAGUACUAGCGGAAAGG 1440
||||:||||:||||:||||:||||:||||:
DB 1 AAGUCAGUACUAGCGGAAAGG 25

RESULT 51

US-11-060-756-32294
Sequence 32294, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 32294
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-32294

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1639 UCCACAAAACAUUCAGAACCACTT 1663
||||:||||:||||:||||:||||:||||:
DB 1 TCCACAAAACATTCAGAACCACTT 25

RESULT 52
US-11-060-756-128746
Sequence 128746, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 128746
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-128746

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1639 UCCACAAAACAUUCAGAACCACTT 1663
||||:||||:||||:||||:||||:||||:
DB 1 TCCACAAAACATTCAGAACCACTT 25

RESULT 53
US-11-060-756-131616
Sequence 131616, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 131616
LENGTH: 25

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1181 AGGACCTGGGATGTTGGA 1205
||||:||||:||||:||||:||||:||||:
DB 1 AGGACCTGGGATGTTGGA 25

RESULT 53
US-11-060-756-131616
Sequence 131616, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT APPLICATION NUMBER: US/11/060,756
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 131616
LENGTH: 25

TYPE: DNA
ORGANISM: probe
US-11-060-756-131616

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 2e+02;
Matches 17; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 1568 AACCCUUUGAUCUGGCUACUG 1532
DB 1 AACCTTTGAAATCGGCTACTG 25

RESULT 54
US-11-060-756-132080
Sequence 132080, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 132080
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-132080

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1311 AGCUAAGUCUCGACGUCACUCC 1335
DB 1 AGCTAAGACTTCTGACGTCACTCC 25

RESULT 55
US-11-060-756-134169
Sequence 134169, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 134169
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-134169

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1726 AGACAGUCGUCACUUUUCACAAGC 1750
DB 1 AGACAGTCGTCATTTTTCACAAGC 25

RESULT 56
US-11-060-756-137147

Sequence 137147, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 137147
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-137147

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1430 AGCGAAAAGAUCCUGGUCUA 1454
DB 1 AGCGAAAAGATGTCCTGTGCA 25

RESULT 57
US-11-060-756-151173
Sequence 151173, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 151173
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-151173

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1540 AACACCUUUUGACAGCUGCAUAC 1564
DB 1 AACACCTTTGTGACAGTCGCAATC 25

RESULT 58
US-11-060-756-151519
Sequence 151519, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 151519
LENGTH: 25
TYPE: DNA

```
; ORGANISM: probe
US-11-060-756-151519

Query Match
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1647 AACAUUCAGAACCACTUUCAGAGUG 1671
|||||:|||||:|||||:|||||:
Db 1 AACATTCAGAACCACTTTCAGAGATG 25

RESULT 59
US-11-060-756-164907
; Sequence 164907, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 164907
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-164907

Query Match
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1554 CAGCTGCAUACCCAAACCCUUGG 1578
|||||:|||||:|||||:|||||:
Db 1 CAGCTGCAUACCCAAACCTTTGG 25

RESULT 60
US-11-060-756-167980
; Sequence 167980, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 167980
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-167980

Query Match
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 1729 CAGCGGUCAUUUUUCACGCGG 1753
|||||:|||||:|||||:|||||:
Db 1 CAGTCGTCATTTTTCACAGCGCG 25

RESULT 61
US-11-060-756-169202
; Sequence 169202, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 169202
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-169202

Query Match
Best Local Similarity 92.0%; Pred. No. 2e+02;
Matches 23; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1225 CAGGCCGAGAGCGUGAGCAUG 1249
|||||:|||||:|||||:|||||:
Db 1 CAGGCCGAGAGCGGTGACGATG 25

RESULT 62
US-11-060-756-171665
; Sequence 171665, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 171665
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-171665

Query Match
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1508 CUGGACCCCAUACAACATGCU 1532
|||||:|||||:|||||:|||||:
Db 1 CTTGACCCCAUACAACATCATGT 25

RESULT 63
US-11-060-756-175922
; Sequence 175922, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 175922
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
```

US-11-060-756-175922

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1599 CUGACUACAAGACGCGUAGACCC 1623

Db 1 CTGACATCAACAGCAGCGTGAACCC 25

RESULT 64

US-11-060-756-177330
; Sequence 177330, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 177330

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-177330

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1358 CUCUACUCUCUCUCCUACAAGAAC 1382

Db 1 CTCCTACTCTCTCTCTTCAAGAAC 25

RESULT 65

US-11-060-756-180404
; Sequence 180404, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 180404

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-180404

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1322 CUGAGCUCACUCUCCUAGGCGUAA 1346

Db 1 CTGACGCTCAACTCTCAGTGGGTAA 25

RESULT 66

US-11-060-756-180430
; Sequence 180430, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 180430

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-180430

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 2e+02;
Matches 23; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1222 CUGAGGCCGAGAGGCGUGAGC 1246

Db 1 CTGCAAGCCGAGAGGCGTGGACG 25

RESULT 67

US-11-060-756-187203
; Sequence 187203, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 187203

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-187203

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1282 CCCAUCGACGAGACGCGUG 1306

Db 1 CCCATCGCTAGAGTCAAGCCGTGG 25

RESULT 68

US-11-060-756-192377
; Sequence 192377, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 192377

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-192377

```
Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 2e+02;
Matches 16; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

Qy      1571 CCUUUGGAUCUGGCUACUGGCU 1595
Db      1 CCTTTGAAATCTGGCTACTGGCT 25

RESULT 69
US-11-060-756-195459
; Sequence 195459, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 195459
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-195459

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      1287 CCAGCTAGAGTCAAGCGGTGACACA 1311
Db      1 CCAGCTAGAGTCAAGCGGTGACACA 25

RESULT 70
US-11-060-756-199924
; Sequence 199924, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 199924
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-199924

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1300 GCCGUGACACAGCUAAGACUUCUG 1324
Db      1 GCCGTGACACAGCTAAGACTTCTG 25

RESULT 71
US-11-060-756-204803
; Sequence 204803, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 204803
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-204803

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1290 GCUAGAGUCAGCCGUGGACACAGCU 1314
Db      1 GCTAGAGTCAGCCGTGACACAGCT 25

RESULT 72
US-11-060-756-208188
; Sequence 208188, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 208188
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-208188

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy      1722 GCAGAGACAGUCGUCAUUUUCCAC 1746
Db      1 GCAGAGACAGTCGTCATTTTTCAC 25

RESULT 73
US-11-060-756-212969
; Sequence 212969, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 212969
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-212969
```


Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1415 GAAGUCAGACUACGCGAAG 1439
DB 1 GAAGTCAGATCCTAAGCGAAG 25

RESULT 74
US-11-060-756-215815

; Sequence 215815, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 215815

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-215815

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1434 GAAAGAGUCUCCUGUCAAGAG 1458
DB 1 GAAAGAGATGCTCCGTCAAGAG 25

RESULT 75
US-11-060-756-217281

; Sequence 217281, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 217281

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-217281

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1690 GACAAAAAAGAGCGCAAGCAGC 1714
DB 1 GACAAAAAAGAGCGCAAGCAGC 25

RESULT 76
US-11-060-756-222249

; Sequence 222249, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 222249

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-222249

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1410 GACCAGAGUCAGACUACGCG 1434
DB 1 GACCAGAGTCAGATCCTAAGCG 25

RESULT 77
US-11-060-756-222779

; Sequence 222779, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 222779

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-222779

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1236 GAGCGUGAGCAGAGCGAGUTU 1260
DB 1 GAGCGUGAGCAGATGAGCGAGTTT 25

RESULT 78
US-11-060-756-224536

; Sequence 224536, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 224536

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-224536

Query Match 1.4%; Score 25; DB 1; Length 25;

Best Local Similarity 76.0%; Pred. No. 2e+02; Indels 0; Gaps 0;
Matches 19; Conservative 6; Mismatches 0;

Qy 1395 GAGUUGUCUGACAGCAGAGU 1419
Db 1 GAGGTTGCTCTGACAGCAGAGT 25

RESULT 79
US-11-060-756-225840

; Sequence 225840, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 225840

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-225840

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02; Indels 0; Gaps 0;
Matches 22; Conservative 3; Mismatches 0;

Qy 1294 GAGUCAGCCGUGACACAGCUAGA 1318
Db 1 GAGTCAAGCCGTGACACAGCTAAGA 25

RESULT 80
US-11-060-756-227514

; Sequence 227514, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 227514

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-227514

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 2e+02; Indels 0; Gaps 0;
Matches 24; Conservative 1; Mismatches 0;

Qy 1206 GAGGAAGCCGACACAGCAGGCC 1230
Db 1 GAGGAAGCCGACAGCTGACAGGCC 25

RESULT 81
US-11-060-756-226709

; Sequence 226709, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 236709

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-236709

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 80.0%; Pred. No. 2e+02; Indels 0; Gaps 0;
Matches 20; Conservative 5; Mismatches 0;

Qy 1327 GUCACUCCUGACUGGUNAAGCA 1351
Db 1 GTCACCTCTCAAGGTAAGACA 25

RESULT 82
US-11-060-756-238898

; Sequence 238898, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 238898

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-238898

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02; Indels 0; Gaps 0;
Matches 21; Conservative 4; Mismatches 0;

Qy 1296 GUCAGCCGUGACACAGCTAAGACU 1320
Db 1 GTCAGCCGTGACACAGCTAAGACT 25

RESULT 83
US-11-060-756-243420

; Sequence 243420, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William Martin

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; FILE REFERENCE: AM101083 (031896-042000)

; CURRENT APPLICATION NUMBER: US/11/060,756

; CURRENT FILING DATE: 2005-02-18

; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 243420

; LENGTH: 25

; TYPE: DNA

; ORGANISM: probe

US-11-060-756-243420

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2e+02;

```
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
Qy 1537 GUGAACCCUUUGACAGCUGCA 1561
|:|||||:|||||:|||||:
Db 1 GTGAACACCTTTGTGTACAGCTGCA 25

RESULT 84
US-11-060-756-244727
; Sequence 244727, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 244727
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-244727

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1339 GUGGUGAAGACGCGCCACCTUCAC 1363
|:|||||:|||||:|||||:
Db 1 GTGGGTAAAGACGCGCCACTCTAC 25

RESULT 85
US-11-060-756-256456
; Sequence 256456, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 256456
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-256456

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1242 GGACGAGUGAGGCGACUUUCCAAA 1266
|:|||||:|||||:|||||:
Db 1 GGACGATGAGGCGAGTTTCCAAA 25

RESULT 86
US-11-060-756-257044
; Sequence 257044, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
```

```
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 257044
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-257044

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1305 GGACAGCTMAAGACCTTGTGACGTC 1329
|:|||||:|||||:|||||:
Db 1 GGACAGCTMAAGACCTTGTGACGTC 25

RESULT 87
US-11-060-756-260956
; Sequence 260956, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 260956
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-260956

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1592 GCGTUGUCUACATCAACAGACCGU 1616
|:|||||:|||||:|||||:
Db 1 GGCTGTGCTACATCAACAGACCGT 25

RESULT 88
US-11-060-756-262560
; Sequence 262560, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 262560
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-262560

Query Match
Best Local Similarity 1.4%; Score 25; DB 1; Length 25;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

OY 1389 GGCCAAGAGGUTUGCCUCUGAAGACC 1413
|||||:::||:|||||
Db 1 GGCCAAGAGGTTTGCTCTGAAGACC 25

```

RESULT 89
US-11-060-756-265948
; Sequence 265948, Application US/11060756
; Publication No. US2005022154A1
; GENERAL INFORMATION:

```

```

1  TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
2
3  TITLE OF INVENTION: Target Genes
4  FILE REFERENCE: AM101083 (031896-042000)
5  CURRENT APPLICATION NUMBER: US/11/060,756
6  CURRENT FILING DATE: 2005-02-18
7  NUMBER OF SEQ ID NOS: 303284
8  SOFTWARE: PatentIn version 3.2
9  SEQ ID NO: 265948
10
11 LENGTH: 25
12
13 TYPE: DNA
14
15 ORGANISM: probe
16
17 US-11-060-756-265948

```

```

RESULT 90
US-11-060-756-279400
; Sequence 279400, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 279400
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-279400

```

	Query Match	1.4%	Score 25;	DB 1;	Length 25;
	Best Local Similarity	68.0%	Pred. No. 2e+02;		
	Matches	17;	Conservative	8;	Mismatches 0; Indels 0; Gaps 0.
OY	1533 UCUGGUGAACACCTUUUGUAGCAGC	1557			
	:.: : : : : : : : : : : : :				
Dd	1 TGTGGTGAACACTTTTGTCAGCG	25			

RESULT 91
 US-11-060-756-279716
 ; Sequence 279716, Application US/11060756
 ; Publication No. US20050221354A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wyeth
 ; APPLICANT: William Martin
 ; TITLE OF INVENTION: Mounts, Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
 ; TITLE OF INVENTION: Target Genes

```

; FILE REFERENCE: AM010083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: Patencn version 3.2
; SEQ ID NO 279716
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-279716

```

Query Match	1.4%	Score 25;	DB 1;	Length 25;
Best Local Similarity	80.0%	Pred. No.	2e+02;	
Matches	20;	Conservative	5;	Mismatches 0; Indels 0; Gaps 0;
Oy	1635	UCUGGCAACAAAACAUUCCAGAAC	1659	
Dd	1	TCTGTGCACAAACAATTCAGAAC	25	

```

RESULT 92
US-11-060-756-281261
; Sequence 281261, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031895-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 281261
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-281261

```

Query Match	1.4%	Score 25	DB 1	Length 25
Best Local Similarity	72.0%	Pred. No. 2e+02		
Matches 18	Conservative 7	Mismatches 0	Indels 0	Gaps 0
QY	1359	UCUACUCUCUCCUUCACAGAAACC	1383	
DB	1	TCCTACCTGTCTCTTCAAGAAAGCC	25	
		: : : : : : : : : :		

```

RESULT 93
US-11-060-756-283013
; Sequence 283013, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nuclear Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083(031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 283013
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-283013

```

Query Match	1.4%	Score 25;	DB 1;	Length 25;
Best Local Similarity	76.0%	Pred. No. 2e+02;		
Matches 19; Conservative	6;	Mismatches 0;	Indels 0;	Gaps 0

```
OY      1502 UCACUCUGAGCCCAUACAACAU 1526
      :||||:||||:||||:||||:
Db      1 TCATGACTTGAGCCCATACACATCAT 25

RESULT 94
US-11-060-756-285037
; Sequence 285037, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 285037
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-285037

Query Match
Best Local Similarity 76.0%; Score 25; DB 1; Length 25;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY      1505 UCACUCUGAGCCCAUACAACAU 1529
      :||||:||||:||||:||||:
Db      1 TCATGAGACCCCATACACATCATCAT 25

RESULT 95
US-11-060-756-286908
; Sequence 286908, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 286908
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-286908

Query Match
Best Local Similarity 72.0%; Score 25; DB 1; Length 25;
Matches 18; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

OY      1519 UACAACUACUGGUCUGUGAACA 1543
      :||||:||||:||||:||||:
Db      1 TACAACATCATGTTCTGTGTGAACA 25

RESULT 96
US-11-060-756-287021
; Sequence 287021, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)

OY      1314 UAAGACUCUCAGCUCACUCUCA 1338
      :||||:||||:||||:||||:
Db      1 TAAAGCTTCTGACGTCACACTCTCA 25

RESULT 97
US-11-121-849-668383
; Sequence 668383, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668383
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668383

Query Match
Best Local Similarity 84.0%; Score 25; DB 1; Length 25;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY      850 ACGGAGCAGUCUCGAGCUCGACGA 874
      :||||:||||:||||:||||:
Db      1 ACGGAGCAGTTCTGAGAGCTGCACGA 25

RESULT 98
US-11-121-849-668384
; Sequence 668384, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668384
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668384

Query Match
Best Local Similarity 80.0%; Score 25; DB 1; Length 25;
Matches 20; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

Qy 866 GCTGCAGCAGUACGACUUCACCA 890
||:|||||:|||||:|||||
Db 1 GCTGCAGCAGTTACGAACCTTCACA 25

RESULT 99
US-11-121-849-668385
; Sequence 668385, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma

; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668385
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668385

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 2e+02;
Matches 23; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 894 AAGCAUGAAGCGUCCACAGAGG 918
|||:|||||:|||||:|||||
Db 1 AAGCATGAACGCTCCACAGAGG 25

RESULT 100
US-11-121-849-668386
; Sequence 668386, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma

; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668386
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668386

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2e+02;
Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 912 CAGGAGAGUAVGCCGCGCCAC 936
|||:|||||:|||||:|||||
Db 1 CAGGAGAGATATGGCCGCTGCCAC 25

RESULT 101
US-11-121-849-668387
; Sequence 668387, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S

; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668387
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668387

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 931 UGCACUUCUGGUCCACCAAGA 955
:|||||:|||||:|||||
Db 1 TGCACCTTCTGCTTCACCAACCAAGA 25

RESULT 102
US-11-121-849-668388
; Sequence 668388, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma

; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668388
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668388

Query Match 1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 2e+02;
Matches 23; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 978 GAUGACCAAGACCAAGCAGCAGU 1002
||:|||||:|||||:|||||
Db 1 GATGACCAAGACCAAGCAGCAGT 25

RESULT 103
US-11-121-849-668389
; Sequence 668389, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma

; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668389
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668389

```

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity    89.0%; Pred. No. 2e+02;
Matches    22; Conservative    3; Mismatches    0; Indels    0; Gaps    0;

Oy      995 GCACGAGCAGCACTGGTGGAAACAACA 1019
Db      1 GCAGCAGTGACAGTTGGAAACAACA 25

RESULT 104
US-11-121-849-668390
; Sequence 668390, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668390
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668390

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity    80.0%; Pred. No. 2e+02;
Matches    20; Conservative    5; Mismatches    0; Indels    0; Gaps    0;

Oy      1010 GGACACAAACAUGAVGCTGCGCCCTC 1034
Db      1 GGAAACAACAATGATGTGCTGCCTC 25

RESULT 105
US-11-121-849-668391
; Sequence 668391, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668391
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668391

Query Match      1.4%; Score 25; DB 1; Length 25;
Best Local Similarity    88.0%; Pred. No. 2e+02;
Matches    22; Conservative    3; Mismatches    0; Indels    0; Gaps    0;

Oy      1058 ACGAGGAGCACAUUGCUCGCGAGAC 1082
Db      1 ACGAGGAGGACATTGGCTCCGAGAC 25

RESULT 106
US-11-121-849-668392
; Sequence 668392, Application US/11121849

```

```

; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded s
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668392
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668392

Query Match          1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 2e+02;
Matches 21; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1078 GAGACGAGGCCCAUCUCCUACUCCG 1102
        |||||:::||:::||:::||::||
        1 GAGACGAGGCCATCTACTCATCG 25

RESULT 107
US-11-121-849-668393
; Sequence 668393, Application US//11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded s
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 668393
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-668393

Query Match          1.4%; Score 25; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2e+02;
Matches 19; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1086 AGCCAUCUACUCCAUCCUGCUCGAAG 1110
        |||||:::||:::||:::||::||
        1 AGCCATCTACTCATCGTGTCTCAAG 25

Db

RESULT 108
US-09-801-274-1145
; Sequence 1145, Application US/09801274
; Patent No. US20020032319A1
; GENERAL INFORMATION:
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Lander, Eric S.
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: 2825.2009-001
; CURRENT APPLICATION NUMBER: US/09/801,274
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 60/187,510
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 60/206,129
; PRIOR FILING DATE: 2000-05-22

```

```
;; NUMBER OF SEQ ID NOS: 1802
;; SOFTWARE: fastseq for windows Version 4.0
;; SEQ ID NO 1145
;; LENGTH: 31
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-801-274-1145
```

```
Query Match 1.4%; Score 24.8; DB 1; Length 31;
Best Local Similarity 63.3%; Pred. No. 3.1e+02;
Matches 19; Conservative 8; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 687 CACCAUACUUNUGGACAGCCACUCCGUC 716
Db 1 CACCACTACTTGTGSACTGCATCTCTCC 30
```

```
RESULT 109
US-09-801-274-1328
; Sequence 1328, Application US/09801274
; Patent No. US20020032319A1
; GENERAL INFORMATION:
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Lander, Eric S.
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: 2825.2009-001
; CURRENT APPLICATION NUMBER: US/09/801,274
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 60/187,510
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 60/206,129
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 1802
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1328
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-801-274-1328
```

```
Query Match 1.4%; Score 24.8; DB 1; Length 31;
Best Local Similarity 63.3%; Pred. No. 3.1e+02;
Matches 19; Conservative 8; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 1587 CUACUGGCGUGUCUACUACAGCACCGU 1616
Db 1 CTACTGGCTCTGCTAGTCACAGCACCAT 30
```

```
RESULT 110
US-10-719-956-108328
; Sequence 108328, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 108328
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-108328
```

```
Query Match 1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 2.8e+02;
Matches 17; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1726 AGACAGUCGUGUACUUUUCACAGC 1750
Db 1 AGACAGTCGGTCTTTTTCACAGC 25
```

```
RESULT 111
US-10-719-900-371517
; Sequence 371517, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 371517
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-371517
```

```
Query Match 1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 2.8e+02;
Matches 16; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1572 CUUUGGAUUCUGGCGUACUGGCG 1596
Db 1 CTAITGGAATCTGGCTACTGCGCTG 25
```

```
RESULT 112
US-10-719-900-452393
; Sequence 452393, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 452393
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-452393
```

```
Query Match 1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2.8e+02;
Matches 22; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1410 GACCAAGUCAGUACUACUAGCGG 1434
Db 1 GACCAAGTCAGATCACCAAGCGG 25
```

```
RESULT 113
US-10-719-900-563311
; Sequence 563311, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
```



```

; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 413596
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-11-036-317-413596

Query Match          1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2.8e+02;
Matches 22; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy      1413 CAGAAGUCAGAUCAUACGCGAAA 1437
Db      1 CAGAACTCATCTACCAAGCGGAAA 25

RESULT 119
; US-11-036-317-442156
; Sequence 442156, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 442156
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-11-036-317-442156

Query Match          1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2.8e+02;
Matches 22; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy      978 GAUGACCAAGACCAAGCAGCAGU 1002
Db      1 GATGACCAAGACCAAGTAGCAGT 25

RESULT 120
; US-11-036-317-455937
; Sequence 455937, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 455937
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-11-036-317-455937

Query Match          1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 2.8e+02;
Matches 22; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy      978 GAUGACCAAGACCAAGCAGCAGU 1002
Db      1 GATGACCAAGACCAAGTAGCAGT 25
```

```

; Best Local Similarity 68.0%; Pred. No. 2.8e+02;
; Matches 17; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Oy      1615 GUGAACCCCGUGUGCUAUCUCUGU 1639
Db      1 GTGAACCCCGTGTGCTATGCCCTGT 25

RESULT 121
; US-11-060-756-175673
; Sequence 175673, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 175673
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
; US-11-060-756-175673

Query Match          1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 2.8e+02;
Matches 18; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

Oy      1587 CUACUGGCUUGUCUACAUCAACAC 1611
Db      1 CTACTGCTGTGTCTAGTCAACAC 25

RESULT 122
; US-11-060-756-183239
; Sequence 183239, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 183239
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
; US-11-060-756-183239

Query Match          1.3%; Score 23.4; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 2.8e+02;
Matches 19; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Oy      1590 CUGGCUUGUCUACAUCAACACAC 1614
Db      1 CTGGCTGTGTCTAGTCAACACACAC 25

RESULT 123
; US-11-136-527-158535
; Sequence 158535, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
```

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; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 158535
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-158535

Query Match
Best Local Similarity 1.3%; Score 23.4; DB 1; Length 25;
Matches 19; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Db
1 AACATTCAGAACCCACTTCAGATG 25

RESULT 124
US-11-136-527-158536
; Sequence 158536, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 158536
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-158536

Query Match
Best Local Similarity 1.3%; Score 23.4; DB 1; Length 25;
Matches 19; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Db
1 AACATTCAGAACCCACTTCAGATG 25

RESULT 125
US-11-136-527-158538
; Sequence 158538, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 158538
```

```

; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-158538

Query Match
Best Local Similarity 1.3%; Score 23.4; DB 1; Length 25;
Matches 18; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

Db
1 CATTGAGAACCCACTTCAGATGCT 25

RESULT 126
US-11-136-527-158539
; Sequence 158539, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 158539
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-158539

Query Match
Best Local Similarity 1.3%; Score 23.4; DB 1; Length 25;
Matches 19; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Db
1 ACATTCAGAACCCACTTCAGATGC 25

RESULT 127
US-10-798-090-199
; Sequence 199, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Synta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (b1A)
; FILE REFERENCE: 400/147 (MEH804-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 199
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-199

Query Match          1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      15 UAAAGUACACCCGCGCCUUGU 37
Db      1 UAAAGUACACCCGCGCCUUGU 23

RESULT 128
US-10-798-090-200
; Sequence 200, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 200
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-200
```

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Query Match          1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      19 AGUACACCCGCGCCUUGUCC 41
Db      1 AGUACACCCGCGCCUUGUCC 23

RESULT 129
US-10-798-090-201
; Sequence 201, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 201
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-201

Query Match          1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      313 UACUCCUCCUUAAGCCGCGCCUG 335
Db      1 UACUCCUCCUUAAGCCGCGCCUG 23

RESULT 130
US-10-798-090-202
; Sequence 202, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
US-10-798-090-202
```

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; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 202
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-202

Query Match      1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      315 CUUCCUUAAGCCUGCCUGUG 337
Db      1 CUUCCUUAAGCCUGCCUGUG 23

RESULT 131
; Sequence 203, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
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; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 203
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-203

Query Match      1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      973 GAGCAGUAGACCAAGCCACAG 995
Db      1 GAGCAGUAGACCAAGCCACAG 23

RESULT 132
; Sequence 204, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 204
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-204

Query Match      1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
```

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1710 GCAGCAGUACGACAGACAGU 1732
|||||
DB 1 GCAGCAGUACGACAGACAGU 23

RESULT 133

US-10-798-090-205
; Sequence 205, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 205
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-205
Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACAGACAGUCG 1734
|||||
DB 1 AGCAGUACGACAGACAGUCG 23

RESULT 134

US-10-798-090-206
; Sequence 206, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)

; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 206
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-206
Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1713 GCAGUACGACAGACAGUCG 1735
|||||

DB 1 GCAGUACGACAGACAGUCG 23

RESULT 135

US-10-919-866-199
; Sequence 199, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028

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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 199
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-199

Query Match
Best Local Similarity 1.3%; Score 23; DB 1; Length 23;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 UACAGUACAACCCGCUUUGU 37
DB 1 UACAGUACAACCCGCUUUGU 23

RESULT 136
US-10-919-866-200
; Sequence 200, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 200
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-200

Query Match
Best Local Similarity 1.3%; Score 23; DB 1; Length 23;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 AGUACAACCCGCUUUGU 41
```

```

DB 1 AGUACAACCCGCUUUGU 23

RESULT 137
US-10-919-866-201
; Sequence 201, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 201
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-201

Query Match
Best Local Similarity 1.3%; Score 23; DB 1; Length 23;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 313 UACUCCUUAAGCCGCGUG 335
DB 1 UACUCCUUAAGCCGCGUG 23

RESULT 138
US-10-919-866-202
; Sequence 202, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 202
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-202
```

```

; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 202
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-202

```

```

Query Match      1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      315 CUUCCUCUUAAGCCUGGCCUGUG 337
Db      1 CUUCCUCUUAAGCCUGGCCUGUG 23

```

```

RESULT 139
US-10-919-866-203
; Sequence 203, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20

```

```

; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 203
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-203

```

```

Query Match      1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      973 GAGCAGUAGGACCAAGACACAG 995
Db      1 GAGCAGUAGGACCAAGACACAG 23

```

```

RESULT 140
US-10-919-866-204
; Sequence 204, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 204
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-204

```

```

Query Match      1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1710 GCAGCAGUACGACGACAGU 1732
Db      1 GCAGCAGUACGACGACAGU 23

```


RESULT 141
US-10-919-866-205
; Sequence 205, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 205
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-205
Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGACGACGUCG 1734
DB 1 AGCAGUACGACGACGACGUCG 23
RESULT 142
US-10-919-866-206
; Sequence 206, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24

; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 206
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-206
Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1713 GCAGUACGACGACGACGUCG 1735
DB 1 GCAGUACGACGACGACGUCG 23
RESULT 143
US-10-719-900-451173
; Sequence 451173, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Wei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 451173
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-451173
Query Match 1.3%; Score 22.4; DB 1; Length 25;
Best Local Similarity 75.0%; Pred. No. 3.5e+02;
Matches 18; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
QY 1648 ACAUUCAGAACACUUCUACAUG 1671
DB 2 ACAUUCAGAACACUUCUACAUG 25
RESULT 144
US-11-136-527-158537
; Sequence 158537, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

```
FILE REFERENCE: 031996-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR FILING DATE: 2005-05-26
NUMBER OF SEQ ID NOS: 362830
SOFTWARE: PatentIn version 3.2
SEQ ID NO 158537
LENGTH: 25
TYPE: DNA
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Probe
US-11-136-527-158537
```

```
Query Match      1.3%; Score 22.4; DB 1; Length 25;
Best Local Similarity 70.8%; Pred. No. 3.5e+02;
Matches 17; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1650 AATCAGAACCACTTCAAGATGCT 1673
DB      1 AATCAGAACCACTTCAAGATGCT 24
```

```
RESULT 145
US-10-719-956-274609
Sequence 274609, Application US/10719956
Publication No. US20040146910A1
GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Rat
FILE REFERENCE: 3527.1
CURRENT APPLICATION NUMBER: US/10/719,956
PRIOR FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,836
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 699466
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 274609
LENGTH: 25
TYPE: DNA
ORGANISM: Rattus norvegicus
US-10-719-956-274609
```

```
Query Match      1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 3.9e+02;
Matches 16; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1582 CUGGCUACUGGCUGUCUACAUCA 1606
DB      1 CTGGGCTACTGCTATGCTACGTC 25
```

```
RESULT 146
US-10-719-900-371516
Sequence 371516, Application US/10719900
Publication No. US20050026164A1
GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILE REFERENCE: 3528.1
CURRENT APPLICATION NUMBER: US/10/719,900
PRIOR FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,808
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 371516
LENGTH: 25
TYPE: DNA
ORGANISM: Mus musculus
US-10-719-900-371516
```

```
Query Match      1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 60.0%; Pred. No. 3.9e+02;
Matches 15; Conservative 8; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1572 CUUUGGAUUCUGGCUACUGGCG 1596
DB      1 CTATTGGAATCTCGGCTACTGCGCTG 25
```

```
RESULT 147
US-10-719-900-387771
Sequence 387771, Application US/10719900
Publication No. US20050026164A1
GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILE REFERENCE: 3528.1
CURRENT APPLICATION NUMBER: US/10/719,900
PRIOR FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,808
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 387771
LENGTH: 25
TYPE: DNA
ORGANISM: Mus musculus
US-10-719-900-387771
```

```
Query Match      1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 3.9e+02;
Matches 16; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1582 CUGGCUACUGGCUGUCUACAUCA 1606
DB      1 CTGGGCTACTGCTTGTCTACGTC 25
```

```
RESULT 148
US-10-719-900-452392
Sequence 452392, Application US/10719900
Publication No. US20050026164A1
GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILE REFERENCE: 3528.1
CURRENT APPLICATION NUMBER: US/10/719,900
PRIOR FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,808
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 452392
LENGTH: 25
TYPE: DNA
ORGANISM: Mus musculus
US-10-719-900-452392
```

```
Query Match      1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 3.9e+02;
Matches 21; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1410 GACCGAGAGUACAUCAUAGCGG 1434
DB      1 GACCGAGAGTCAATCAACAGCGG 25
```

```
RESULT 149
US-10-719-900-562103
Sequence 562103, Application US/10719900
Publication No. US20050026164A1
GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
```

```

; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 562103
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-562103

Query Match
Best Local Similarity 72.0%; Pred. No. 3.9e+02; Length 25;
Matches 18; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1390 GCCAAGAGGUGUCUCUGAAGACCA 1414
Db 1 GCTAAGAGGTTGCTCTCAAGACCA 25

RESULT 150
US-10-719-900-563310
; Sequence 563310, Application US/107199900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 563310
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-563310

Query Match
Best Local Similarity 68.0%; Pred. No. 3.9e+02; Length 25;
Matches 17; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 1586 GCUACUGGCGUGCUCACUACACAG 1610
Db 1 GCTACTGGCTGCTCTATCAACAG 25

RESULT 151
US-10-719-900-847290
; Sequence 847290, Application US/107199900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 847290
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-847290

Query Match
1.2%; Score 21.8; DB 1; Length 25;
Score 21.8; DB 1; Length 25;
```

```

Best Local Similarity 72.0%; Pred. No. 3.9e+02;
Matches 18; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1551 UGACAGCUGCAUCCCAAAACCTUU 1575
Db 1 TGACAGCTGCATTCACAAACCTAT 25

RESULT 152
US-11-036-317-485535
; Sequence 485535, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 485535
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-485535

Query Match
1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 3.9e+02;
Matches 18; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1009 UGGAACAACAUAUGCUCUGCCU 1033
Db 1 TGAATACACACGATGCTGCTCT 25

RESULT 153
US-11-060-756-141921
; Sequence 141921, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 141921
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-141921

Query Match
1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 3.9e+02;
Matches 18; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1589 ACUGGCGUGCUCACUACACAGCAGC 1613
Db 1 ACTGGCTTGTTCATCAACAGCAC 25

RESULT 154
US-11-060-756-146660
; Sequence 146660, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
```

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; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146660
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-146660

Query Match
Best Local Similarity 1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 3.9e+02;
Matches 18; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1520 AACACUAGUGUGUGAAGAC 1544
DB 1 AACAGTCATGCTCTGTGAACAC 25

RESULT 155
US-11-060-756-152117
; Sequence 152117, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 152117
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-152117

Query Match
Best Local Similarity 1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 3.9e+02;
Matches 17; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1522 AACCAUGUGUGUGAAGACCU 1546
DB 1 AACGTCATGCTCTGTGAACACT 25

RESULT 156
US-11-136-527-158540
; Sequence 158540, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 158540
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
```

```

US-11-136-527-158540

Query Match
Best Local Similarity 1.2%; Score 21.8; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 3.9e+02;
Matches 17; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1651 UUCAGAACCAUUCUAGAUGUCG 1675
DB 1 TTCAGAACCACTTCAGATGCTCC 25

RESULT 157
US-10-809-189-58455
; Sequence 58455, Application US/10809189
; Publication No. US20050048531A1
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/10/809,189
; CURRENT FILING DATE: 2004-03-25
; PRIOR APPLICATION NUMBER: US/09/396,196
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58455
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-10-809-189-58455

Query Match
Best Local Similarity 1.2%; Score 21.4; DB 1; Length 25;
Best Local Similarity 60.9%; Pred. No. 4.2e+02;
Matches 14; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

QY 1526 UCAUGUGUGUGAAGACCUUU 1548
DB 3 TCATGCTCTGTGAACACTTT 25

RESULT 158
US-10-719-900-451174
; Sequence 451174, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 451174
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-451174

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Best Local Similarity 70.8%; Pred. No. 4.8e+02;
Matches 17; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1648 ACAUUGAAGCAUUCUAGAUG 1671
DB 2 ACATTGAGAACGACCTTCAAGATG 25
```

```
RESULT 159
US-11-060-756-140214
; Sequence 140214, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 140214
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-140214

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 16; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1516 CCAUACAACAUCAUGGUCUGUG 1539
||:|||||:||||:||||:|
Db 2 CCCTACACATCATGTCGTGCTG 25

RESULT 160
US-11-060-756-140215
; Sequence 140215, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 140215
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-140215

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 16; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1516 CCAUACAACAUCAUGGUCUGUG 1539
||:|||||:||||:||||:|
Db 2 CCCTACACATCATGTCGTGCTG 25

RESULT 161
US-11-060-756-176156
; Sequence 176156, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 176156
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-176156

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 16; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1516 CCAUACAACAUCAUGGUCUGUG 1539
||:|||||:||||:||||:|
Db 2 CCCTACACATCATGTCGTGCTG 25

; SEQ ID NO 176156
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-176156

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 16; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1519 UACAACUACAUGGUCUGUGAAC 1542
:|||||:||||:||||:|
Db 2 TACAACGTCATGTCCTGCTGAAC 25

RESULT 162
US-11-060-756-202713
; Sequence 202713, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 202713
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-202713

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 17; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1593 GCUGUCUACAUAACAACGACCGU 1616
||:|||||:|||||:|
Db 1 GCTGTCTACGTCAACGACCAT 24

RESULT 163
US-11-060-756-239676
; Sequence 239676, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 239676
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-239676

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 14; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 1526 UCAUGGUCUGUGAACACCUUU 1549
.:||:||||:|||||:|
Db 2 TCATGGCTCTGCTGAACCTTCT 25
```

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RESULT 164
US-11-121-849-124288
; Sequence 124288, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 124288
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-124288

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 14; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 1526 UCAUGGUCUGUGACACCUUUU 1549
DB 2 TCATGCTCTGTGTAACCTTCT 25

RESULT 165
US-11-136-527-158541
; Sequence 158541, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 158541
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-158541

Query Match
Best Local Similarity 1.2%; Score 20.8; DB 1; Length 25;
Matches 17; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1653 CAGAACCACTTCAAGAGUGUCU 1676
DB 1 CAGAACCACTTCAAGATGCTCT 24

RESULT 166
US-10-719-956-274610
; Sequence 274610, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
```

```
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 274610
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-274610

Query Match
Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;
Matches 15; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1582 CUGGCTACUGGUCUGUACAUCA 1606
DB 1 CTGGGCTACTGGGTATGCTACGTCA 25

RESULT 167
US-10-719-956-580106
; Sequence 580106, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 580106
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-580106

Query Match
Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1499 UCAUCAUACUGGACCCCAUCAA 1523
DB 1 TCATCATCATGATGACCCCTTATA 25

RESULT 168
US-10-719-956-664015
; Sequence 664015, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 664015
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-664015

Query Match
Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;
Matches 19; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1372 UUCAAGGAAGCAUCUGCCCAAGA 1396
DB 1 UUCAAGGAAGCAUCUGCCCAAGA 1396
```

Db 1 TTCAGGAATCCACTGGCCAGGA 25

RESULT 169

US-10-719-900-43769

Sequence 43769, Application US/10719900

Publication No. US20050026164A1

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528.1

CURRENT APPLICATION NUMBER: US/10/719,900

PRIOR FILING DATE: 2003-11-20

PRIOR APPLICATION NUMBER: 60/427,808

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 43769

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-10-719-900-43769

Query Match

Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;

Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1459 AAGAAAGCGGCCGAGCCGACGUG 1463

Db 1 AAGAAAGCGGCCGAGCCGACGUG 25

RESULT 170

US-10-719-900-55769

Sequence 55769, Application US/10719900

Publication No. US20050026164A1

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528.1

CURRENT APPLICATION NUMBER: US/10/719,900

PRIOR FILING DATE: 2003-11-20

PRIOR APPLICATION NUMBER: 60/427,808

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 55769

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-10-719-900-55769

Query Match

Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;

Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1276 AAGCUCCCAUCCAGCAGUAGCAG 1300

Db 1 AAGCTCCCATCCAGTTAGAGTCTG 25

RESULT 171

US-10-719-900-387772

Sequence 387772, Application US/10719900

Publication No. US20050026164A1

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528.1

CURRENT APPLICATION NUMBER: US/10/719,900

PRIOR FILING DATE: 2003-11-20

PRIOR APPLICATION NUMBER: 60/427,808

PRIOR FILING DATE: 2002 11 20

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 387772

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-10-719-900-387772

Query Match

Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;

Matches 15; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1582 CUGGCGUACUGGCGUGCUGCAUCA 1606

Db 1 CTGGGCTACTGGGTTTGCTACGTCA 25

RESULT 172

US-10-719-900-562102

Sequence 562102, Application US/10719900

Publication No. US20050026164A1

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528.1

CURRENT APPLICATION NUMBER: US/10/719,900

PRIOR FILING DATE: 2003-11-20

PRIOR APPLICATION NUMBER: 60/427,808

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 562102

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-10-719-900-562102

Query Match

Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;

Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1390 GCCAAGAGGUGUCUCUGAAGACCA 1414

Db 1 GCTAAGAGGTTCTCTCAAGACCA 25

RESULT 173

US-10-719-900-795977

Sequence 795977, Application US/10719900

Publication No. US20050026164A1

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528.1

CURRENT APPLICATION NUMBER: US/10/719,900

PRIOR FILING DATE: 2003-11-20

PRIOR APPLICATION NUMBER: 60/427,808

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 795977

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-10-719-900-795977

Query Match

Best Local Similarity 1.1%; Score 20.2; DB 1; Length 25;

Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1604 UCAACAGCACCGUAGAACCCCGUG 1628

Db 1 TCACAGCAGCTGTCAACCCCATGTG 25

```
RESULT 174
US-10-719-900-953129
; Sequence 953129, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 953129
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-953129

Query Match          1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 56.0%; Pred. No. 5.4e+02;
Matches 14; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

QY      1489 UUGCUUGCCUUGCAUACAUCUUGA 1513
DB      1 TTGCTGGCTTTCATCATCATCACTGGA 25

RESULT 175
US-10-809-189-99629
; Sequence 99629, Application US/10809189
; Publication No. US20050048531A1
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/10/809,189
; CURRENT FILING DATE: 2004-03-25
; PRIOR APPLICATION NUMBER: US/09/396,196
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 99629
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-10-809-189-99629

Query Match          1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1507 ACUUGACCCCAUACAUCANCG 1531
DB      1 ACCTGACACCATATTAACATCATGG 25

RESULT 176
US-10-809-189-115275
; Sequence 115275, Application US/10809189
; Publication No. US20050048531A1
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
```

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; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/10/809,189
; CURRENT FILING DATE: 2004-03-25
; PRIOR APPLICATION NUMBER: US/09/396,196
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115275
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-10-809-189-115275

Query Match          1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 52.0%; Pred. No. 5.4e+02;
Matches 13; Conservative 9; Mismatches 3; Indels 0; Gaps 0;

QY      469 AUGAAUUCUUGCAUACGCUUG 493
DB      1 ATGAACCTTCTGTGATATGCTTGG 25

RESULT 177
US-11-060-756-121819
; Sequence 121819, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 121819
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-121819

Query Match          1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1504 AUCACUUGACCCCAUACAUCUA 1528
DB      1 ATCACATGACCCCGTATTAACATCA 25

RESULT 178
US-11-060-756-121820
; Sequence 121820, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 121820
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
```


US-11-060-756-121820

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1504 AUCACUGAGCCCGCATACATCA 1528
1 ATCACATGAGCCCGCATACATCA 25

RESULT 179

US-11-060-756-122169
; Sequence 122169, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 122169
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-122169

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1501 AUCACUGAGCCCGCATACATCA 1525
1 ATCACATGAGCCCGCATACATCA 25

RESULT 180

US-11-060-756-128205
; Sequence 128205, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 128205
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-128205

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 84.0%; Pred. No. 5.4e+02;
Matches 21; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1454 AGGAGAAAGCGCCGACGACCU 1478
1 AGGAGAAAGCGCGCTCGGACCT 25

RESULT 181
US-11-060-756-137566
; Sequence 137566, Application US/11060756
; Publication No. US20050221354A1

; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 137566
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-137566

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1513 ACCCAUACAUGGUGUCUGG 1537
1 ACCCGATATACATCATGCTCTGG 25

RESULT 182

US-11-060-756-139454
; Sequence 139454, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 139454
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-139454

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1507 ACTUGAGCCCAUACAUGG 1531
1 ACCTGACACCGTACACATCATGG 25

RESULT 183

US-11-060-756-146298
; Sequence 146298, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146298
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-146298

```

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY      1513 ACCCCGACACATCATGCTGCTGG 1537
DB      1 ACACCGTACACATCATGCTGCTGG 25

RESULT 184
US-11-060-756-163148
; Sequence 163148, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 163148
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-163148

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY      1506 CACUUGGACCCCAUACACAUCAUG 1530
DB      1 CACTTGCGCCCAUACATGTCATG 25

RESULT 185
US-11-060-756-164983
; Sequence 164983, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 164983
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-164983

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 5.4e+02;
Matches 16; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY      1514 CCCCAUACAACAUCAUGUUCUGU 1538
DB      1 CACCGTACACATCATGCTGCTGGT 25

RESULT 186
US-11-060-756-168817
; Sequence 168817, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 168817
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-168817

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY      1508 CUGGACCCCAUACAACAUCAUGU 1532
DB      1 CATGGACCCCGTATACATCATGCT 25

RESULT 187
US-11-060-756-188590
; Sequence 188590, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 188590
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-188590

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 5.4e+02;
Matches 16; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY      1514 CCCCAUACAACAUCAUGUUCUGU 1538
DB      1 CCCGTAATACATCATGCTGCTGGT 25

RESULT 188
US-11-060-756-192519
; Sequence 192519, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 192519
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-192519

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY      1508 CUGGACCCCAUACAACAUCAUGU 1532
DB      1 CATGGACCCCGTATACATCATGCT 25

RESULT 187
US-11-060-756-188590
; Sequence 188590, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 188590
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-188590

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 5.4e+02;
Matches 16; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY      1514 CCCCAUACAACAUCAUGUUCUGU 1538
DB      1 CCCGTAATACATCATGCTGCTGGT 25

RESULT 188
US-11-060-756-192519
; Sequence 192519, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 192519
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-192519

```

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 5.4e+02;
Matches 16; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1517 CAACCAACCAUCAGUUCUGUGAA 1541
DB 1 CCTACACGTCATCATGTGCTGAA 25

RESULT 189
US-11-060-756-218631
Sequence 218631, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 218631
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-218631

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1512 GACCCCAUACAUCAGUUCUG 1536
DB 1 GACACCGTACATCATGTGCTG 25

RESULT 190
US-11-060-756-218632
Sequence 218632, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 218632
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-218632

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1512 GACCCCAUACAUCAGUUCUG 1536
DB 1 GACACCGTACATCATGTGCTG 25

RESULT 191
US-11-060-756-256967
Sequence 256967, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth

APPLICANT: Mounts, William Martin
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 256967
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-256967

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1511 GACCCCAUACAUCAGUUCU 1535
DB 1 GACACCGTACATCATGTGCT 25

RESULT 192
US-11-060-756-263670
Sequence 263670, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 263670
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-263670

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1510 UGACCCCAUACAUCAGUUC 1534
DB 1 TGGACACCGTACATCATGTGCT 25

RESULT 193
US-11-060-756-273444
Sequence 273444, Application US/11060756
Publication No. US20050221354A1
GENERAL INFORMATION:
APPLICANT: Wyeth
TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
FILE REFERENCE: AM101083 (031896-042000)
CURRENT FILING DATE: 2005-02-18
NUMBER OF SEQ ID NOS: 303284
SOFTWARE: PatentIn version 3.2
SEQ ID NO 273444
LENGTH: 25
TYPE: DNA
ORGANISM: probe
US-11-060-756-273444

Query Match 1.1%; Score 20.2; DB 1; Length 25;

```
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1597 UGCUAUCACAGCAGCCGUAACC 1621
:||||:|||||:|||||:|||||
Db 1 TCCTACGTACAGCAGCCATCAACC 25

RESULT 194
US-11-060-756-282661
; Sequence 282661, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 282661
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-282661

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1499 UCAUCAUCACUUGACCCCAUACAA 1533
:||||:|||||:|||||:|||||
Db 1 TCATCATCATCATGACCCGTATAA 25

RESULT 195
US-11-060-756-282662
; Sequence 282662, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 282662
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-282662

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1499 UCAUCAUCACUUGACCCCAUACAA 1523
:||||:|||||:|||||:|||||
Db 1 TCATCATCATCATGACCCGTATAA 25

RESULT 196
US-11-121-849-48862
; Sequence 48862, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
```

```
; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 48862
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-48862

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 52.0%; Pred. No. 5.4e+02;
Matches 13; Conservative 9; Mismatches 3; Indels 0; Gaps 0;

QY 1525 AUCAGUCUUGAGUAGACCCUUU 1549
:||||:|||||:|||||:|||||
Db 1 ATCATGCTCTGTGAGCTCTTTT 25

RESULT 197
US-11-121-849-125376
; Sequence 125376, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 125376
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-125376

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1507 ACTUGAGCCCAUACAUCAUGG 1531
:||||:|||||:|||||:|||||
Db 1 ACTTGGGCCCATACATGTCTATGG 25

RESULT 198
US-11-121-849-125380
; Sequence 125380, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 125380
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-125380
```

```
Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 64.0%; Pred. No. 5.4e+02;
Matches 16; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1585 GGCUCAGCGGCGUCGCAUACAACA 1609
Db      1 GGTTACTGCGCTTGTGTACATCAACA 25

RESULT 199
US-11-121-849-184585
; Sequence 184585, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 184585
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-184585

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy      1501 AUCACUACUUGAGCCCAUACAACA 1525
Db      1 ATCATCATCATGACCCCGATATACA 25

RESULT 200
US-11-121-849-184586
; Sequence 184586, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 184586
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-184586

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy      1513 ACCCCAUACAACAUCAGGUCUG 1537
Db      1 ACCCGTATATACATCATGCTCTGG 25

RESULT 201
US-11-136-527-134960
; Sequence 134960, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 134960
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-134960

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 68.0%; Pred. No. 5.4e+02;
Matches 17; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy      1505 UCACUGAGCCCAUACAACAUCAU 1529
Db      1 TCACCTGACACCATATATACATCAT 25

RESULT 202
US-11-136-527-134972
; Sequence 134972, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Mounts, William M
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 134972
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-134972

Query Match      1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 5.4e+02;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy      1506 CACUGAGCCCAUACAACAUCAG 1530
Db      1 CACCTGACACCATATATACATCATG 25

RESULT 203
US-10-798-090-1
; Sequence 1, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sina Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
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Db      1 UCCAAACAUACAGCCUCC 19
|||||
RESULT 206
US-10-798-090-4
; Sequence 4, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-4
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      57 CUGAUAACACAGCCUCC 75
|||||
Db      1 CUGAUAACACAGCCUCC 19

RESULT 207
US-10-798-090-5
; Sequence 5, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803

Db      1 CGAUGCAGGCGUCCCG 93
|||||
QY      75 CGAUGCAGGCGUCCCG 93
|||||
Db      1 CGAUGCAGGCGUCCCG 19

RESULT 208
US-10-798-090-6
; Sequence 6, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
```

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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-6

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      93 GGGACCGCAGCAGUUC 111
DB      1 GGGACCGCAGCAGUUC 19

RESULT 209
US-10-798-090-7
; Sequence 7, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-7

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      111 CGGACGUCAGUUCU 129
DB      1 CGGACGUCAGUUCU 19
```

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RESULT 210
US-10-798-090-8
; Sequence 8, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-8

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      129 UCGACGCGGCAUUC 147
DB      1 UCGACGCGGCAUUC 19

RESULT 211
US-10-798-090-9
; Sequence 9, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
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; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23.
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-9

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```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      147 CUCCUCCAGACGAGUACC 165
Db      1 CUCCUCCAGACGAGUACC 19

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RESULT 212
US-10-798-090-10
; Sequence 10, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3

```

```

; SEQ ID NO 10
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-10

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      165 CACCGAUACCCUUGCGGA 183
Db      1 CACCGAUACCCUUGCGGA 19

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RESULT 213
US-10-798-090-11
; Sequence 11, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-11

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```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      183 AGGUCAUACCGUUGCGCA 201
Db      1 AGGUCAUACCGUUGCGCA 19

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RESULT 214
US-10-798-090-12

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```
; Sequence 12, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1nA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 12
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1nA sense r
US-10-798-090-12

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      201 AGUGGUCUUCGCGCTTUC 219
DB      1 AGUGGUCUUCGCGCTTUC 19

RESULT 215
US-10-798-090-13
; Sequence 13, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1nA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
```

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; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 13
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1nA sense r
US-10-798-090-13

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      219 CUUACGGGCAUCCUGGCC 237
DB      1 CUUACGGGCAUCCUGGCC 19

RESULT 216
US-10-798-090-14
; Sequence 14, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1nA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 19
; TYPE: RNA
```

```
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-14

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 237 CUGUGACCAUACUAGCGC 255
Db 1 CUGUGACCAUACUAGCGC 19

RESULT 217
US-10-798-090-15
; Sequence 15, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-15

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 255 CAACUCCUGGUAUUGUG 273
Db 1 CAACUCCUGGUAUUGUG 19

RESULT 218
US-10-798-090-16
; Sequence 16, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
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/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBHB04-183)
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 16
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-16

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 273 GUCAUUAAGGUCAACAG 291
Db 1 GUCAUUAAGGUCAACAG 19

RESULT 219
US-10-798-090-17
; Sequence 17, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBHB04-183)
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
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; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 17
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-17

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      291 GCAGCTGAGACGCGUCAC 309
DB      1 GCAGCTGAGACGCGUCAC 19
|||||
|||||

RESULT 220
US-10-798-090-18
; Sequence 18, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richarde, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-17
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US-10-798-090-18

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      309 CCACTGCTCCCTCCUAAAC 327
DB      1 CCACTGCTCCCTCCUAAAC 19
|||||
|||||

RESULT 221
US-10-798-090-19
; Sequence 19, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richarde, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 19
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-19

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      327 CCUGCCUGGCGCAUCUG 345
DB      1 CCUGCCUGGCGCAUCUG 19
|||||
|||||

RESULT 222
US-10-798-090-20
; Sequence 20, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richarde, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-20
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; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-20

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      345 GAUUAUCCGGGUCUUAUCCA 363
DB      1 GAUUAUCCGGGUCUUAUCCA 19

RESULT 223
US-10-798-090-21
; Sequence 21, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richmond, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
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; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-21

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      363 AAUGAAUCCUGUUAACGACC 381
DB      1 AAUGAAUCCUGUUAACGACC 19

RESULT 224
US-10-798-090-22
; Sequence 22, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richmond, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-22

Query Match          1.1%; Score 19; DB 1; Length 19;
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Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 381 CUACAUCAUCAUGAUCGA 399
|||||
Db 1 CUACAUCAUCAUGAUCGA 19

RESULT 225

US-10-798-090-23
; Sequence 23, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense
US-10-798-090-23

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 399 AUGGGCCUAGGGAACUG 417
|||||
Db 1 AUGGGCCUAGGGAACUG 19

RESULT 226

US-10-798-090-24
; Sequence 24, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)

FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense
US-10-798-090-24

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 417 GGCCTUGACCTUGGCTU 435
|||||
Db 1 GGCCTUGACCTUGGCTU 19

RESULT 227

US-10-798-090-25
; Sequence 25, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11

;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 25
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-25

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 435 UGCCAUGACUACGUAGCC 453
Db 1 UGCCAUGACUACGUAGCC 19

RESULT 228
US-10-798-090-26
;; Sequence 26, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sigma Therapeutics, Inc.
;; APPLICANT: MCSwigen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (siNA)
;; FILE REFERENCE: 400/147 (MEHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 26
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-26

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 453 CAGCAUCCUCCUGUUAUG 471
Db 1 CAGCAUCCUCCUGUUAUG 19

RESULT 229
US-10-798-090-27
;; Sequence 27, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sigma Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: MCSwigen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (siNA)
;; FILE REFERENCE: 400/147 (MEHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 27
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-27

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 471 GAUUCUUCUGUCUACGAC 489
Db 1 GAUUCUUCUGUCUACGAC 19

RESULT 230
US-10-798-090-28
;; Sequence 28, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sigma Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: MCSwigen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (siNA)
;; FILE REFERENCE: 400/147 (MEHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; PRIOR FILING DATE: 2004-03-11

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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-28

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      489 CUUGACAGUACUUUUCC 507
Db      1 CUUGACAGAUACUUUCC 19

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RESULT 231
US-10-798-090-29
; Sequence 29, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784

```

```

; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 29
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-29

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY      507 CAUACAGAGCGCCUCACG 525
Db      1 CAUACAGAGCGCCUCACG 19

```

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RESULT 232
US-10-798-090-30
; Sequence 30, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 30
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-30

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      525 GUACGAGCCAAAGCAACA 543
Db      1 GUACGAGCCAAAGCAACA 19

```



```
RESULT 233
US-10-798-090-31
; Sequence 31, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-31
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 543 AACAAAGAGCGCGUGUG 561
Db 1 AACAAAGAGCGCGUGUG 19

RESULT 234
US-10-798-090-32
; Sequence 32, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
```

```
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-32
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 561 GAUAUGGUGUGGUGUGG 579
Db 1 GAUAUGGUGUGGUGUGG 19

RESULT 235
US-10-798-090-33
; Sequence 33, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 33
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-33

Query Match
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 GGUCAUCCUUCUUGUCUU 597
Db 1 UUGGAGUCCUUGUCCUU 19

RESULT 236
US-10-798-090-34
; Sequence 34, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-34

Query Match
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 597 UUGGAGUCCUUGUCCUU 615
Db 1 UUGGAGUCCUUGUCCUU 19

RESULT 237
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```

US-10-798-090-35
; Sequence 35, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 35
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-35

Query Match
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 615 GUUCUGCAUACUUGUU 633
Db 1 GUUCUGCAUACUUGUU 19

RESULT 238
US-10-798-090-36
; Sequence 36, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
```

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; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-36

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      633 UGGAAGAGAACTGUGCCU 651
Db      1 UGGAAGAGAACTGUGCCU 19

RESULT 239
US-10-798-090-37
; Sequence 37, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richard, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinegic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 19
```

```

; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-37

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      651 UCCGGAGAGUCCUCACU 669
Db      1 UCCGGAGAGUCCUCACU 19

RESULT 240
US-10-798-090-38
; Sequence 38, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richard, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinegic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-38

RESULT 241
US-10-798-090-39
; Sequence 39, Application US/10798090
; Publication No. US20050014172A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 39
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-39

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      687 CACCAUUAUUUUUUGCACA 705
DB      1 CACCAUUAUUUUUUGCACA 19

RESULT 242
US-10-798-090-40
; Sequence 40, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
```

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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-40

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      705 AGCCAUCCGUCGUUUUAU 723
DB      1 AGCCAUCCGUCGUUUUAU 19

RESULT 243
US-10-798-090-41
; Sequence 41, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
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```
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-41

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      723 UAUGCCUGACCAUUAUG 741
      |||||
Db      1 UAUGCCUGACCAUUAUG 19

RESULT 244
US-10-798-090-42
; Sequence 42, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sina Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Collinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sina Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Collinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      741 GACUUAUUUAUCUGAGG 759
      |||||
Db      1 GACUUAUUUAUCUGAGG 19

RESULT 245
US-10-798-090-43
; Sequence 43, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sina Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Collinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      759 GAUCUUAAGAAACUGAA 777
      |||||
Db      1 GAUCUUAAGAAACUGAA 19

RESULT 246
US-10-798-090-44
; Sequence 44, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sina Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Collinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
```

```

; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-44
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      777 AAAGCGUACCAAGAGCCUU 795
Db      1 AAAGCGUACCAAGAGCCUU 19
```

RESULT 247

```

; Sequence 45, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Iyan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-45
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      795 UGCGGCGCGCAAGCCUU 813
Db      1 UGCGGCGCGCAAGCCUU 19
```

RESULT 248

```

; Sequence 46, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Iyan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 46
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-46
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      813 UGCGACAGAGCGAGAGACA 831
Db      1 UGCGACAGAGCGAGAGACA 19
```

RESULT 249

```

; Sequence 47, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Iyan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
US-10-798-090-47
```

;; TITLE OF INVENTION: (sina)
;; FILE REFERENCE: 400/147 (MBHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO: 47
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-47

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 831 AGAAAACUUGUCCACCCC 849
Db 1 AGAAAACUUGUCCACCCC 19

RESULT 250
US-10-798-090-48
;; Sequence 48, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirta Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: McSwiggen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; FILE REFERENCE: 400/147 (MBHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124

;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO: 48
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-48

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 849 CACGGCAGUUCGAGC 867
Db 1 CACGGCAGUUCGAGC 19

RESULT 251
US-10-798-090-49
;; Sequence 49, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirta Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: McSwiggen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; FILE REFERENCE: 400/147 (MBHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO: 49
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-49

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
OY      867 CUGCAGCAGUUAUGAACU 885
      |||||
      1 CUGCAGCAGUUAUGAACU 19

RESULT 252
US-10-798-090-50
; Sequence 50, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 50
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-50

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      885 UCAACGCAAGCAUGCAA 903
      |||||
      1 UCAACGCAAGCAUGCAA 19

RESULT 253
US-10-798-090-51
; Sequence 51, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090

; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-51

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      903 ACGCUCACAGAGAGAG 921
      |||||
      1 ACGCUCACAGAGAGAG 19

RESULT 254
US-10-798-090-52
; Sequence 52, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
```


;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 52
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-52

Qy 921 GUAUGGCGCGCCACUUC 939
Db 1 GUAUGGCGCGCCACUUC 19
|||||

RESULT 255
US-10-798-090-53
;; Sequence 53, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirna Therapeutics, Inc.
;; APPLICANT: McSwiggen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergeric
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; FILE REFERENCE: 400/147 (MEHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 53
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-53

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 939 CUGGUCACCAACGAGC 957
Db 1 CUGGUCACCAACGAGC 19
|||||

Db 1 CUGGUCACCAACGAGC 19
|||||

RESULT 256
US-10-798-090-54
;; Sequence 54, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirna Therapeutics, Inc.
;; APPLICANT: McSwiggen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergeric
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; FILE REFERENCE: 400/147 (MEHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 54
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-54

Qy 957 CUGGAACCCAGCUCGAG 975
Db 1 CUGGAACCCAGCUCGAG 19
|||||

RESULT 257
US-10-798-090-55
;; Sequence 55, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirna Therapeutics, Inc.
;; APPLICANT: Richard, Ivan
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergeric
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; FILE REFERENCE: 400/147 (MEHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-55
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```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Oy      975 GCAGUGACCAAGACCAC 993
Db      1 GCAGUGACCAAGACCAC 19
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RESULT 258
US-10-798-090-56
; Sequence 56, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
```

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; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 56
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-56
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Oy      993 CAGCAGCAGUACAGUGG 1011
Db      1 CAGCAGCAGUACAGUGG 19
```

```
RESULT 259
US-10-798-090-57
; Sequence 57, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 57
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-57
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```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Oy      1011 GAACAACAAGACUGCU 1029
Db      1 GAACAACAAGACUGCU 19
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```

RESULT 260
US-10-798-090-58
; Sequence 58, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-58

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 UGCUCCUCCUGAGACUCC 1047
DB 1 UGCUCCUCCUGAGACUCC 19

RESULT 261
US-10-798-090-59
; Sequence 59, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059

```

```

; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-59

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1047 CGCUCCUCCGACGAGAG 1065
DB 1 CGCUCCUCCGACGAGAG 19

RESULT 262
US-10-798-090-60
; Sequence 60, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 60

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; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-60

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1065 GGACAUUGGCUCCGAGACG 1083
Db      1 GGACAUUGGCUCCGAGACG 19

RESULT 263
US-10-798-090-61
; Sequence 61, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 61
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-61

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1083 GAGAGCAUCUACUCCAUCC 1101
Db      1 GAGAGCAUCUACUCCAUCC 19

RESULT 264
US-10-798-090-62
; Sequence 62, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 62
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-62

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1101 CGUGCUCAAGCUCCGGGU 1119
Db      1 CGUGCUCAAGCUCCGGGU 19

RESULT 265
US-10-798-090-63
; Sequence 63, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 63
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-63
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; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 63
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-63

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1119 UCACGACCAUCCUCCAC 1137
Db      1 UCACGACCAUCCUCCAC 19

RESULT 266
US-10-798-090-64
; Sequence 64, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 64
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
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```
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-64

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1137 CUCCACCAAGUACCCUCA 1155
Db      1 CUCCACCAAGUACCCUCA 19

RESULT 267
US-10-798-090-65
; Sequence 65, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-65

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1155 AUCCGACCAUCCUCCAGUG 1173
Db      1 AUCCGACCAUCCUCCAGUG 19

RESULT 268
US-10-798-090-66
; Sequence 66, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
```

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; APPLICANT: Richards, Ivan
; APPLICANT: MCSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEH04-183)
; CURRENT APPLICATION NUMBER: US10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 66
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-66

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1173 GCCUGAGAGAGAGCUGGCG 1191
DB      1      GCCUGAGAGAGAGCUGGCG 19

RESULT 269
US-10-798-090-67
; Sequence 67, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEH04-183)
; CURRENT APPLICATION NUMBER: US10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 67
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-67

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1191 GAUGGUGAGACUUGAGAGG 1209
DB      1      GAUGGUGAGACUUGAGAGG 19

RESULT 270
US-10-798-090-68
; Sequence 68, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEH04-183)
; CURRENT APPLICATION NUMBER: US10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 68
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-68
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Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1209 GAAAGCCGACAAGCUCAG 1227
|||||

DB 1 GAAAGCCGACAAGCUCAG 19

RESULT 271

US-10-798-090-69

Sequence 69, Application US/10798090
Publication No. US20050014172A1

GENERAL INFORMATION:

APPLICANT: Sigma Therapeutics, Inc.

APPLICANT: McSwiggen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

FILE REFERENCE: 400/147 (MEHB04-183)

CURRENT APPLICATION NUMBER: US/10/798,090

CURRENT FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-10-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

PRIOR APPLICATION NUMBER: US 60/363,124

PRIOR FILING DATE: 2002-03-11

PRIOR APPLICATION NUMBER: US 60/386,782

PRIOR FILING DATE: 2002-06-06

PRIOR APPLICATION NUMBER: US 60/406,784

PRIOR FILING DATE: 2002-08-29

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 304

SOFTWARE: PatentIn version 3.3

SEQ ID NO 69

LENGTH: 19

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r

US-10-798-090-69

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1227 GGGCCGAGAAGCGUGAC 1245
|||||

DB 1 GGGCCGAGAAGCGUGAC 19

RESULT 272

US-10-798-090-70

Sequence 70, Application US/10798090
Publication No. US20050014172A1

GENERAL INFORMATION:

APPLICANT: Sigma Therapeutics, Inc.

APPLICANT: McSwiggen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

TITLE OF INVENTION: (siNA)

FILE REFERENCE: 400/147 (MEHB04-183)

CURRENT APPLICATION NUMBER: US/10/798,090

CURRENT FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-10-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

PRIOR APPLICATION NUMBER: US 60/363,124

PRIOR FILING DATE: 2002-03-11

PRIOR APPLICATION NUMBER: US 60/386,782

PRIOR FILING DATE: 2002-06-06

PRIOR APPLICATION NUMBER: US 60/406,784

PRIOR FILING DATE: 2002-08-29

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 304

SOFTWARE: PatentIn version 3.3

SEQ ID NO 70

LENGTH: 19

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r

US-10-798-090-70

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1245 CGAUGAGGCAUUTUCCA 1263
|||||

DB 1 CGAUGAGGCAUUTUCCA 19

RESULT 273

US-10-798-090-71

Sequence 71, Application US/10798090
Publication No. US20050014172A1

GENERAL INFORMATION:

APPLICANT: Sigma Therapeutics, Inc.

APPLICANT: McSwiggen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

FILE REFERENCE: 400/147 (MEHB04-183)

CURRENT APPLICATION NUMBER: US/10/798,090

CURRENT FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-10-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

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; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 71
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-71

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1263 AAAAGCUCUCCAGCCU 1281
Db          1 AAAAGCUCUCCAGCCU 19

RESULT 274
US-10-798-090-72
; Sequence 72, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 72
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-72

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
```

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Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1281 UCCCAUCGAGGAGUCA 1299
Db          1 UCCCAUCGAGGAGUCA 19

RESULT 275
US-10-798-090-73
; Sequence 73, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-73

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1299 AGCCGUGACACGUAAG 1317
Db          1 AGCCGUGACACGUAAG 19

RESULT 276
US-10-798-090-74
; Sequence 74, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
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/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 74
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-74
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```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1317 GACUUCGACGUCACUCC 1335
Db 1 GACUUCGACGUCACUCC 19
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```
RESULT 277
US-10-798-090-75
/ Sequence 75, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sitna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (siNA)
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
```

```
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 75
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-75
```

```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1335 CUCAGUGGGUAGAGCAGC 1353
Db 1 CUCAGUGGGUAGAGCAGC 19
```

```
RESULT 278
US-10-798-090-76
/ Sequence 76, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sitna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (siNA)
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 76
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-76
```

```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1353 GGCACUCCUACUCCUCC 1371
```

```
Db          1 GGCACUCUACCCUCGUC 19

RESULT 279
US-10-798-090-77
; Sequence 77, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1nA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 77
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1nA sense r
US-10-798-090-77

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1371 CUUCAAGAGCCACUCUG 1389
Db          1 CUUCAAGAGCCACUCUG 19

RESULT 280
US-10-798-090-78
; Sequence 78, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1nA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1nA sense r
US-10-798-090-78

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1389 GGCACAGAGUUGCUCUG 1407
Db          1 GGCACAGAGUUGCUCUG 19

RESULT 281
US-10-798-090-79
; Sequence 79, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1nA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1nA sense r
US-10-798-090-79
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-79

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1407 GAAGACCGAAGGCAAGC 1425
Db      1 GAAGACCGAAGGCAAGC 19

RESULT 282
US-10-798-090-80
; Sequence 80, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 80
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-80

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1425 CACUAGGCGAAGGCAAGC 1443
Db      1 CACUAGGCGAAGGCAAGC 19

; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 81
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-81

RESULT 283
US-10-798-090-81
; Sequence 81, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 81
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-81

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1443 GUCCCGGCGAAGGCAAG 1461
Db      1 GUCCCGGCGAAGGCAAG 19

RESULT 284
US-10-798-090-82
; Sequence 82, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
```

```
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO: 82
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-82
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1461 GAAAGCGGCCGAGCCCTC 1479

Db 1 GAAAGCGGCCGAGCCCTC 19

```
RESULT 285
US-10-798-090-83
; Sequence 83, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
```

```
;; SEQ ID NO: 83
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-83
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1479 CAGUCGACUUCUGCGCC 1497

Db 1 CAGUCGACUUCUGCGCC 19

```
RESULT 286
US-10-798-090-84
; Sequence 84, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 84
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-798-090-84
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Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1497 CUUCAUCAUCUGAGCC 1515

Db 1 CUUCAUCAUCUGAGCC 19

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RESULT 287
US-10-798-090-85
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; Sequence 85, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 85
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-85
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1515 CCCAUAACAACAUCAUGGU 1533
DB 1 CCCAUAACAACAUCAUGGU 19

RESULT 288
US-10-798-090-86
; Sequence 86, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
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; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-86
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1533 UCUUGUACAACCCUUGU 1551
DB 1 UCUUGUACAACCCUUGU 19

RESULT 289
US-10-798-090-87
; Sequence 87, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87
; LENGTH: 19
; TYPE: RNA
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```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-87

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1551 UGACGAGCUCGAUACCCCAA 1569
DB      1 UGACGAGCUCGAUACCCCAA 19

RESULT 290
US-10-798-090-88
; Sequence 88, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-88

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1569 AACCUUUUGAAUUCUGGCG 1587
DB      1 AACCUUUUGAAUUCUGGCG 19

RESULT 291
US-10-798-090-89
; Sequence 89, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
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; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 90
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-90

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1605 CAACAGCACCGUGAACCC 1623
DB 1 CAACAGCACCGUGAACCC 19

RESULT 293
US-10-798-090-91
; Sequence 91, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 91
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense

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US-10-798-090-91

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1623 CGUGUGCAUGCUCUGGC 1641
DB 1 CGUGUGCAUGCUCUGGC 19

RESULT 294
US-10-798-090-92
; Sequence 92, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 92
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-92

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1641 CAACAAACAUUCAGAAC 1659
DB 1 CAACAAACAUUCAGAAC 19

RESULT 295
US-10-798-090-93
; Sequence 93, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James

```

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; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 93
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-93

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1659 CACUUCAGAGUCGUCUG 1677
DB      1 CACUUCAGAGUCGUCUG 19

RESULT 296
US-10-798-090-94
; Sequence 94, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-93
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; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-94

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1677 GCUGGCGAGUGGACAAA 1695
DB      1 GCUGGCGAGUGGACAAA 19

RESULT 297
US-10-798-090-95
; Sequence 95, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 95
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/s1NA sense r
US-10-798-090-95
```


Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1695 AAAAAGAGCGCAGAGAG 1713
|||||

DB 1 AAAAAGAGCGCAGAGAG 19

RESULT 298

US-10-798-090-96
; Sequence 96, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 96
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-96

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1713 GCAGUACGACGAGAGAG 1731
|||||

DB 1 GCAGUACGACGAGAGAG 19

RESULT 299

US-10-798-090-97

; Sequence 97, Application US/10798090

; Publication No. US20050014172A1

; GENERAL INFORMATION:

; APPLICANT: Sirna Therapeutics, Inc.

; APPLICANT: Richards, Ivan

; APPLICANT: MCSwiggan, James

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

; FILE REFERENCE: 400/147 (MBHB04-183)

; CURRENT APPLICATION NUMBER: US/10/798,090

; CURRENT FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-10-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: PCT/US03/05028

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; PRIOR APPLICATION NUMBER: US 60/363,124

; PRIOR FILING DATE: 2002-03-11

; FILE REFERENCE: 400/147 (MBHB04-183)

; CURRENT APPLICATION NUMBER: US/10/798,090

; CURRENT FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-10-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: PCT/US03/05028

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; PRIOR APPLICATION NUMBER: US 60/363,124

; PRIOR FILING DATE: 2002-03-11

; PRIOR APPLICATION NUMBER: US 60/386,782

; PRIOR FILING DATE: 2002-06-06

; PRIOR APPLICATION NUMBER: US 60/406,784

; PRIOR FILING DATE: 2002-08-29

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 304

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 97

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-97

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1731 GUCGUAUUUUCACAG 1749
|||||

DB 1 GUCGUAUUUUCACAG 19

RESULT 300

US-10-798-090-98
; Sequence 98, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11

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; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 98
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-99

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1749 GCGCGACCCGAGCAGGCC 1767
DB      1 GCGCGACCCGAGCAGGCC 19

RESULT 301
US-10-798-090-99
; Sequence 99, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-798-090-99

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1753 GCACCGAGAGCCUUGU 1771
DB      1 GCACCGAGAGCCUUGU 19

RESULT 302
US-10-798-090-100/c
; Sequence 100, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-100

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      3 GACCUUGACAAUACAGU 21
DB      19 GACCTTGACATTAACAGT 1

RESULT 303
US-10-798-090-101/c
; Sequence 101, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
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PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 101
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-101

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UGACACCCGCGCTTGGT 39
:|||||:|||||:|||||:
DB 19 TACAACTCGCCTTGT 1

RESULT 304
US-10-798-090-102/c
Sequence 102, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784

PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 102
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-102

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 39 UGCAACACGCGCTTGGT 57
:|||||:|||||:|||||:
DB 19 TCCAACTCGCCTTGT 1

RESULT 305
US-10-798-090-103/c
Sequence 103, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 103
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-103

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 57 CUGAUAACACGCGCTTGGT 75
:|||||:|||||:|||||:
DB 19 CTGATATACACGCGCTTGT 1

```
RESULT 306
US-10-798-090-104/c
; Sequence 104, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 104
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Richards, Ivan
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
US-10-798-090-104

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      75 CGAUGCAGGCGUGCCCCCG 93
DB      19 CGATGCAGGCGTCCCCCG 1

RESULT 307
US-10-798-090-105/c
; Sequence 105, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
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; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 105
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Richards, Ivan
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
US-10-798-090-105

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      93 GGAACCGCACCACCAUUC 111
DB      19 GGAACCGTCACCATTC 1

RESULT 308
US-10-798-090-106/c
; Sequence 106, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
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/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 106
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-106

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy      111 CGGACGACUACAAGUUUUU 129
      |||||:||||:||||:
Db      19 CGGACGACTGCATGTTCT 1

RESULT 309
US-10-798-090-107/c
/ Sequence 107, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Collinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (s1NA)
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 107
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-107

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      129 UCGACGACGUGGCAUUUC 147
      :|||||:||||:||||:
Db      19 TCGACGACTGCATTTTC 1

RESULT 310
US-10-798-090-108/c
/ Sequence 108, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Collinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (s1NA)
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 108
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-108

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      147 CUCCUCUCGACGAGUACC 165
      |:|:|:|||||:||||:
Db      19 CTCCTCTCCAGACGGTACC 1

RESULT 311
US-10-798-090-109/c
/ Sequence 109, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Collinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (s1NA)
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
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; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 109
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-109

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      165 CACCGAUGACCCUUGGGA 183
DB      19 CACCGATGACCTCTGGGA 1

RESULT 312
US-10-798-090-110/c
; Sequence 110, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 110
; LENGTH: 19
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;
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-111

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      183 AGGUGAUAACCGUUGGCAA 201
DB      19 AGGTGATACCGTCTGGCAA 1

RESULT 313
US-10-798-090-111/c
; Sequence 111, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 111
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-111

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      201 AGUGGUCUUCAGCCUUC 219
DB      19 AGTGTCTTCATCGCTTTC 1

RESULT 314
US-10-798-090-112/c
; Sequence 112, Application US/10798090
; Publication No. US20050014172A1
```

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; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 112
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-112

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      237 CUUACGGGCAUCCUGGCC 237
Db      19 CTTACGGGCACTCTCGCC 1

RESULT 315
US-10-798-090-113/c
; Sequence 113, Application US/10798090
; Publication No. US2005004172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 113
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-113

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      237 CUUGUGACCAUCCUGGCC 255
Db      19 CTTGGTGACCATCTCGCC 1

RESULT 316
US-10-798-090-114/c
; Sequence 114, Application US/10798090
; Publication No. US2005004172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-114
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 255 CAACUCCUGUAUUUGG 273
DB 19 CAACTCCTGGATTGTG 1

RESULT 317
US-10-798-090-115/c
Sequence 115, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 115
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-115
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 273 GUCAUUAGGUCACAAG 291
DB 19 CTCATTTAGTCAACAG 1

RESULT 318
US-10-798-090-116/c
Sequence 116, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20

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PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 117
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-117

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 309 CAACGACUUCUCCUUAAGC 327
DB 19 CAACGACUUCUCCUUAAGC 1

RESULT 320

US-10-798-090-118/c
Sequence 118, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 118
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-118

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 327 CCUGGCCUGGCCGCAUCUG 345
DB 19 CCUGGCCUGGCCGCAUCUG 1

RESULT 321

US-10-798-090-119/c
Sequence 119, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 119
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-119

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 345 GAUUAUCCGGGCUCAUUCU 363
DB 19 GAUUAUCCGGGCUCAUUCU 1

RESULT 322

US-10-798-090-120/c
Sequence 120, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

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; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 120
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-120

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      363 AAUGAUCUGUUVACGACC 381
Db      19 AATGAATCTGTTACGACC 1

RESULT 323
US-10-798-090-121/c
; Sequence 121, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: S1ma Therapeutics, Inc.
; APPLICANT: McSw1gen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
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; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 121
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-121

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      381 CTACATCATCATGAAATCGA 399
Db      19 CTACATCATCATGAAATCGA 1

RESULT 324
US-10-798-090-122/c
; Sequence 122, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: S1ma Therapeutics, Inc.
; APPLICANT: McSw1gen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 122
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-122

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```


;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO: 125
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-125

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 453 CAGCAUUGCUCUGUAUG 471
DB 19 CAGCAUUGCUCUGUAUG 1

RESULT 328
US-10-798-090-126/c
; Sequence 126, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 126
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-126

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 471 GAUUCUUGCUCUAUCAGC 489
DB 19 GAUUCUUGCUCUAUCAGC 1

DB 19 GAATCTTCGTCATCAGC 1

RESULT 329
US-10-798-090-127/c
; Sequence 127, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 127
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-127

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 489 CUUGACAGAUACUUUCC 507
DB 19 CTTGACAGATACCTTCC 1

RESULT 330
US-10-798-090-128/c
; Sequence 128, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14

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; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patent version 3.3
; SEQ ID NO 128
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-128
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      507 CAUACGAGCGCGCTCAGC 525
Db      19 CATCAGAGCGCGCTCAGC 1
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RESULT 331
US-10-798-090-129/c
; Sequence 129, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colinegic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
```

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; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patent version 3.3
; SEQ ID NO 129
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-129
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      525 GUACGAGCGCAAGACACA 543
Db      19 GTCACGAGCGCAAGACACA 1
```

```

RESULT 332
US-10-798-090-130/c
; Sequence 130, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colinegic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patent version 3.3
; SEQ ID NO 130
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-130
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      543 AACCAAGAGCGCGGTGTG 561
Db      19 AACCAAGAGCGCGGTGTG 1
```

```
RESULT 333
US-10-798-090-131/C
; Sequence 131, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 131
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-131
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 561 GAUGAUCGUCUUGCUCUG 579
DB 19 GATGATCGGCTGCTTGG 1

RESULT 334
US-10-798-090-132/C
; Sequence 132, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
```

```
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 132

QY 579 GGUCAUCCUUCUUGCCUU 597
DB 19 GGTATCTCTCTTGTCTT 1

RESULT 335
US-10-798-090-133/C
; Sequence 133, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 133
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-133

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy      597 UGGGCGUCCGCAUCUG 615
Db      19 TTGGGCTCTGCGCATCTTG 1

RESULT 336
US-10-798-090-134/c
; Sequence 134, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 134
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-134

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 4.3e+02;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

Qy      615 GUUCUGCAUACUUGU 633
Db      19 GTTCTGCAATCTTGTT 1

RESULT 337
US-10-798-090-135/c
; Sequence 135, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 135
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-135

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      633 UGGAAGAGAACTUGGCTT 651
Db      19 TGGAAAGAGAACTGTGCTT 1

RESULT 338
US-10-798-090-136/c
; Sequence 136, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-136
```



```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY      741 GACUAAUUUAACUGAGG 759
      |||::|::|::|::|::|::|
DB      19 GACTATTTTACTGAGG 1

RESULT 344
US-10-798-090-142/c
; Sequence 142, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 142
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-142

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      759 GAUCUUAUAGAAACUGAA 777
      |||::|::|::|::|::|::|
DB      19 GATCTATAAGAAACUGAA 1

RESULT 345
US-10-798-090-143/c
; Sequence 143, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
```

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; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 143
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-143

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      777 AAAGCUAACAAGACCTU 795
      |||::|::|::|::|::|::|
DB      19 AAAGCTACCAAGACCTT 1

RESULT 346
US-10-798-090-144/c
; Sequence 144, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
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; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 144
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-144

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 795 UGCGGCGGCAAGCCUCU 813
Db 19 TGGGAGCAGGCGCAGACA 1

RESULT 347
US-10-798-090-145/c
; Sequence 145, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 145
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-145

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

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Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 813 UGGAGCAGAGCAGACACA 831
Db 19 TGGGAGCAGGCGCAGACA 1

RESULT 348
US-10-798-090-146/c
; Sequence 146, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 146
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-146

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 831 AGAAACUUNUGCCACCCC 849
Db 19 AGAAACTTGTCCACCCC 1

RESULT 349
US-10-798-090-147/c
; Sequence 147, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)

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/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 147
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-147
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      849 CACGGGACGUCUGAAGC 867
Db      19 CACGGGACGTCCTCGAAGC 1
```

```
RESULT 350
US-10-798-090-148/c
/ Sequence 148, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
```

```
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 148
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-148
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      867 CUCGACGACUUGAAGCCTU 885
Db      19 CUCGACGACGTTACGAACCTT 1
```

```
RESULT 351
US-10-798-090-149/c
/ Sequence 149, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 149
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-149
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      885 UCAACAGCAAGCAUGAAA 903
```

```
Db      19 TCAACGACGAAAGCATGAAA 1
      :|||||:|||||:|||||
RESULT 352
US-10-798-090-150/c
; Sequence 150, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 150
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
US-10-798-090-150
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      903 ACGCUCCAACGAGGAG 921
      :|||||:|||||:|||||
Db      19 ACGTCGCAACGAGGAG 1

RESULT 353
US-10-798-090-151/c
; Sequence 151, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 151
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
US-10-798-090-151
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      921 GUAUGCCGCGCCGACUUC 939
      :||:|||||:|||||:|||||
Db      19 GTATGCGCGTCGCACTTC 1

RESULT 354
US-10-798-090-152/c
; Sequence 152, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 152
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
US-10-798-090-152
```

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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 152
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-152

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      939 CUGGUCACCAACCAAGAGC 957
DB      19 CTGGTTCCACACCAAGAGC 1

RESULT 355
US-10-798-090-153/c
; Sequence 153, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 153
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-153

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      957 CUGGAACCCAGCUCGAG 975
DB      19 CTGGAACCCAGCTCCGAG 1
```

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RESULT 356
US-10-798-090-154/c
; Sequence 154, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 154
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-154

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      975 GCAGAGCACCAGACAC 993
DB      19 GCAGATGACCAAGACAC 1

RESULT 357
US-10-798-090-155/c
; Sequence 155, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
```



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Sequence 158, Application US/10798090
Publication No. US2005004172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinicrgic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 158
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-158

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1047 CGCCUCCCGACGAGAG 1065
DB      19 CGCCTCTCCGACGAGAG 1

RESULT 361
US-10-798-090-159/c
Sequence 159, Application US/10798090
Publication No. US2005004172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinicrgic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
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PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 159
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-159

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1065 GGCACUUGGCUCCGACGAGC 1083
DB      19 GGCATTGGCTCCGACGAGC 1

RESULT 362
US-10-798-090-160/c
Sequence 160, Application US/10798090
Publication No. US2005004172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinicrgic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 160
LENGTH: 19
TYPE: RNA
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/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-160

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1083 GAGAGCCATCUCGCAUC 1101
      |||||:||||:||||:|
Db      19 GAGAGCCATCTACTCATT 1

RESULT 363
US-10-798-090-161/c
/ Sequence 161, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 161
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-161

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1101 CGUGCUCAGCUCGCGGU 1119
      ||:||||:||||:|
Db      19 CGUGCUCAGCTTCGGGT 1

RESULT 364
US-10-798-090-162/c
/ Sequence 162, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20

/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20

/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
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PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 163
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-163

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1137 CUCCACGAGUACCCUCA 1155
|:|||||:|||||:
Db 19 CTCACGACGTTACCTCA 1

RESULT 366
US-10-798-090-164/c
Sequence 164, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sina Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 164
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region

US-10-798-090-164

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1155 AUCGACACGACGUG 1173
|:|||||:|||||:
Db 19 ATCGACACGCTGACGATG 1

RESULT 367
US-10-798-090-165/c
Sequence 165, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sina Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 165
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-165

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1173 GCCUGAGAGAGCUGGG 1191
|:|||||:|||||:
Db 19 GCCTGAGAGAGCTGGG 1

RESULT 368
US-10-798-090-166/c
Sequence 166, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sina Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James

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/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBH04-183)
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 166
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-166

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1191 GAUGUGAGACUUGAGAGG 1209
DB      19 GATGGTGAAGTGGAGAGG 1

RESULT 369
US-10-798-090-167/c
/ Sequence 167, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBH04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
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/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 167
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-167

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1209 GAAAGCGACAGACUAGCAG 1227
DB      19 GAAAGCGACAGACUAGCAG 1

RESULT 370
US-10-798-090-168/c
/ Sequence 168, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MBH04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 168
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-168

Query Match      1.1%; Score 19; DB 1; Length 19;
```

Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1227 GGGCCGAGAGCGUGAC 1245
|||||
DB 19 GGGCCGAGAGCGTGCAC 1

RESULT 371

US-10-798-090-169/c

; Sequence 169, Application US/10798090

; Publication No. US20050014172A1

; GENERAL INFORMATION:

; APPLICANT: Sigma Therapeutics, Inc.

; APPLICANT: Richards, Ivan

; APPLICANT: McSwigen, James

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

; TITLE OF INVENTION: (s1nA)

; FILE REFERENCE: 400/147 (MEHB04-183)

; CURRENT APPLICATION NUMBER: US/10/798,090

; CURRENT FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-10-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: PCT/US03/05028

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; PRIOR APPLICATION NUMBER: US 60/363,124

; PRIOR FILING DATE: 2002-03-11

; PRIOR APPLICATION NUMBER: US 60/386,782

; PRIOR FILING DATE: 2002-06-06

; PRIOR APPLICATION NUMBER: US 60/406,784

; PRIOR FILING DATE: 2002-08-29

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 304

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 169

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: s1nA antisense region

US-10-798-090-169

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 73.7%; Pred. No. 4.3e+02;

Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1245 CGAUGAGCGAGUUUCCA 1263
|||||
DB 19 CGATGAGCGAGTTTCCA 1

RESULT 372

US-10-798-090-170/c

; Sequence 170, Application US/10798090

; Publication No. US20050014172A1

; GENERAL INFORMATION:

; APPLICANT: Sigma Therapeutics, Inc.

; APPLICANT: Richards, Ivan

; APPLICANT: McSwigen, James

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

; TITLE OF INVENTION: (s1nA)

; FILE REFERENCE: 400/147 (MEHB04-183)

; CURRENT APPLICATION NUMBER: US/10/798,090

; CURRENT FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-10-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: PCT/US03/05028

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; PRIOR APPLICATION NUMBER: US 60/363,124

; PRIOR FILING DATE: 2002-03-11

; PRIOR APPLICATION NUMBER: US 60/386,782

; PRIOR FILING DATE: 2002-06-06

; PRIOR APPLICATION NUMBER: US 60/406,784

; PRIOR FILING DATE: 2002-08-29

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 304

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 170

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: s1nA antisense region

US-10-798-090-170

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 73.7%; Pred. No. 4.3e+02;

Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1263 AAAAGCUCUCCAGCTU 1281
|||||
DB 19 AAAAGCTTCTCCAGCTT 1

RESULT 373

US-10-798-090-171/c

; Sequence 171, Application US/10798090

; Publication No. US20050014172A1

; GENERAL INFORMATION:

; APPLICANT: Sigma Therapeutics, Inc.

; APPLICANT: Richards, Ivan

; APPLICANT: McSwigen, James

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

; TITLE OF INVENTION: (s1nA)

; FILE REFERENCE: 400/147 (MEHB04-183)

; CURRENT APPLICATION NUMBER: US/10/798,090

; CURRENT FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-10-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: PCT/US03/05028

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; PRIOR APPLICATION NUMBER: US 60/363,124

; PRIOR FILING DATE: 2002-03-11

```

; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 171
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-171

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1281 UCCCAUCCAGCUAGUCA 1299
Db      19  TCCCATCCAGCTAGACTCA 1

RESULT 374
US-10-798-090-172/c
; Sequence 172, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 172
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-172

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```

Qy      1299 AGCCGUGACACAGCUAAG 1317
Db      19  AGCCGTGACACGCTTAG 1

RESULT 375
US-10-798-090-173/c
; Sequence 173, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 173
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-173

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1317 GACUUCGACGACUCC 1335
Db      19  GACTTGTGACGCTCACTCC 1

RESULT 376
US-10-798-090-174/c
; Sequence 174, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
```

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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 174
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-174

```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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```

Qy      1335 CUCAGUGGUAAGACAGC 1353
Db      19 CTCAGTGGGTAAAGACGACG 1

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```

RESULT 377
US-10-798-090-175/c
; Sequence 175, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (6inn)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 176
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-176

```

```

; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 175
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-175

```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

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```

Qy      1353 GGCACUCUACCCUCCUCC 1371
Db      19 GGCACCTCTACTCTCTCTC 1

```

```

RESULT 378
US-10-798-090-176/c
; Sequence 176, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (6inn)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 176
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-176

```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1371 CUUCAAGAGCCACUCUG 1389
Db      19 CTTCAAGGAAGCCACTCTG 1

```

RESULT 379
US-10-798-090-177/c
Sequence 177, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 177
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-177
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
CY 1389 GGCCAGAGGAGGUCUCUG 1407
DB 19 GGCCAGAGGAGGTTGCTCTG 1
RESULT 380
US-10-798-090-178/c
Sequence 178, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 178
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-798-090-178
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
CY 1407 GAAGACCAAGAGUCAGAU 1425
DB 19 GAAGACCAAGAGTCAGATC 1
RESULT 381
US-10-798-090-179/c
Sequence 179, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304

```
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 179
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-179

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1425 CACUAAAGCGAAAGGAUG 1443
DB 19 CACTAAGCGAAAGGATG 1

RESULT 382
US-10-798-090-180/c
; Sequence 180, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 180
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-180

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1443 GUCCUGGUAAGAGAGAG 1461
DB 19 GTCCCTGTCAAGAGAG 1

RESULT 383
```

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US-10-798-090-181/c
; Sequence 181, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-181

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1461 GAAAGCGGCCAGACCCUC 1479
DB 19 GAAAGCGGCCAGACCCCTC 1

RESULT 384
US-10-798-090-182/c
; Sequence 182, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
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; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-798-090-182

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1479 CAGGCGCAUCUUGCUGGCC 1497
DB      19  CAGTCGATCTTGTCTGCC 1

RESULT 385
US-10-798-090-183/c
; Sequence 183, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 183
; LENGTH: 19
```

```
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-798-090-183

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1497 CUUCAUCACUACUGGACC 1515
DB      19  CCTCATCATCATCTTGACC 1

RESULT 386
US-10-798-090-184/c
; Sequence 184, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 184
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-798-090-184

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1515 CCCAUCACACUACUGGU 1533
DB      19  CCCATCAACATCATGTGT 1

RESULT 387
US-10-798-090-185/c
; Sequence 185, Application US/10798090
; Publication No. US20050014172A1
```

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; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 185
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
US-10-798-090-185

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      1533 UCUGUGAACACCCUUUGU 1551
DB      19 TCUGTGACACCTTTGT 1

RESULT 388
US-10-798-090-186/c
; Sequence 186, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
US-10-798-090-186

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1551 UGACGUCGACUACCCAAA 1569
DB      19 TGACAGTCGATACCCAAA 1

RESULT 389
US-10-798-090-187/c
; Sequence 187, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 187
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
```

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/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-187

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1569 AACCUUGGAUUGGAGC 1587
DB      19 AACCTTTGGAATCTGGCC 1

RESULT 390
US-10-798-090-188/c
; Sequence 188, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 188
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-188

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1587 CUACUGGUGUGUACAU 1605
DB      19 CTAAGCTGTGTCTACATC 1

RESULT 391
US-10-798-090-189/c
; Sequence 189, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-189

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1605 CAACAGCACCGUAGACCC 1623
DB      19 CAACAGCACCGTGAACCC 1

RESULT 392
US-10-798-090-190/c
; Sequence 190, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 190
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-798-090-190
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; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 190
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-798-090-190

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY      1623 CGUGGCUAUGCUGUCG 1641
DB      19 CCGTGTCTATGCTCTGTGC 1

RESULT 393
US-10-798-090-191/c
; Sequence 191, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 191
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-798-090-191
```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1641 CACAAAACAUUCAGACACC 1659
DB      19 CACAAAACATTCAGACACC 1

RESULT 394
US-10-798-090-192/c
; Sequence 192, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 192
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-798-090-192

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1659 CACUUUCAAAGUCUGUCG 1677
DB      19 CACTTCAGAGATGCTGCTG 1

RESULT 395
US-10-798-090-193/c
; Sequence 193, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
US-10-798-090-193
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; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 193
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-193

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```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Qy      1677 GCGUGCCGAGUGACAAA 1695
Db      19  GCGTGCAGGTGACAAA 1

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RESULT 396
US-10-798-090-194/c
; Sequence 194, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sina Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124

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; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 194
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-194

```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1695 AAAAAGAGCGCAGCAG 1713
Db      19  AAAAAGAGCGCAGCAG 1

```

```

RESULT 397
US-10-798-090-195/c
; Sequence 195, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sina Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 195
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-798-090-195

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```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 198
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-798-090-198

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1753 GCACCCGAGCAGCCUUGU 1771
Db 19 GCACCCGAGCAGCCUUGT 1

RESULT 401
US-10-919-866-1
; Sequence 1, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-1

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GACCUUGACAUAACAGU 21
Db 19 GACCUUGACAUAACAGU 21
```

```

Db 1 GACCUUGACAUAACAGU 19

RESULT 402
US-10-919-866-2
; Sequence 2, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-2

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 21 UACACUUGCCUUGUUU 39
Db 1 UACACUUGCCUUGUUU 19

RESULT 403
US-10-919-866-3
; Sequence 3, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
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; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-3

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      39 UCCAAACAUCAAGCCUCC 57
      |||||
Db      1 UCCAAACAUCAAGCCUCC 19

RESULT 404
US-10-919-866-4
; Sequence 4, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-4

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      57 CUGAUAACACAGCCUCC 75
      |||||
Db      1 CUGAUAACACAGCCUCC 19

RESULT 405
US-10-919-866-5
; Sequence 5, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-5

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      75 CGAUGAGGAGCGCCCG 93
      |||||
Db      1 CGAUGAGGAGCGCCCG 19
```



```
RESULT 406
US-10-919-866-6
; Sequence 6, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNa sense
US-10-919-866-6
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 93 GGAACCGCAGCUCACUUTUC 111
Db 1 GGAACCGCAGCUCACUUTUC 19

RESULT 407
US-10-919-866-7
; Sequence 7, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
```

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; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNa sense
US-10-919-866-7
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 111 CGGACGACUACAUGUUUCU 129
Db 1 CGGACGACUACAUGUUUCU 19

RESULT 408
US-10-919-866-8
; Sequence 8, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
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; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-8

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      129 UCGAGCGGCGCAUUGC 147
      |||||
Db      1 UCGAGCGGCGCAUUGC 19

RESULT 409
US-10-919-866-9
; Sequence 9, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-9

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      147 CUCCUCUCCGACGAGUACC 165
      |||||
Db      1 CUCCUCUCCGACGAGUACC 19

RESULT 410
US-10-919-866-10
; Sequence 10, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-10

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      165 CACCGAUGACCCUCUGGA 183
      |||||
Db      1 CACCGAUGACCCUCUGGA 19

RESULT 411
US-10-919-866-11
; Sequence 11, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-11
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; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense 1
US-10-919-866-11

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```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 183 AGGUCAUCCGUCGCGCAA 201

DB 1 AGGUCAUCCGUCGCGCAA 19

RESULT 412

US-10-919-866-12

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; Sequence 12, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 12
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence

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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense 1
US-10-919-866-12

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```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 201 AGUGUCUUCAGGCGGCUUC 219

DB 1 AGUGUCUUCAGGCGGCUUC 19

RESULT 413

US-10-919-866-13

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; Sequence 13, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 13
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense 1
US-10-919-866-13

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```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 219 CUUACGGGCAUCCGCGCC 237

DB 1 CUUACGGGCAUCCGCGCC 19

RESULT 414

US-10-919-866-14

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; Sequence 14, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.

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; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-14

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Indels 0; Gaps 0;

QY      237 CUUGUGACCAUCATCGGC 255
Db      1 CUUGUGACCAUCATCGGC 19

RESULT 415
US-10-919-866-15
; Sequence 15, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
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; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-15

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      255 CAACAUCCUGUAUUGUG 273
Db      1 CAACAUCCUGUAUUGUG 19

RESULT 416
US-10-919-866-16
; Sequence 16, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 16
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-16
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```

; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 19
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-19

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          327 CCUGGCCUGGCCGCAUCUG 345
Db          1 CCUGGCCUGGCCGCAUCUG 19

RESULT 420
US-10-919-866-20
; Sequence 20, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-20

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
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```

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          345 GAUUAUCGGGUGCAUUUCA 363
Db          1 GAUUAUCGGGUGCAUUUCA 19

RESULT 421
US-10-919-866-21
; Sequence 21, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-21

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          363 AAUGAUCUGGUTUACGACC 381
Db          1 AAUGAUCUGGUTUACGACC 19

RESULT 422
US-10-919-866-22
; Sequence 22, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
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/ CURRENT APPLICATION NUMBER: US/10/919,866
/ PRIOR FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 22
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-22
```

```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 381 CUACAUCACUAGAACGCA 399
Db 1 CUACAUCACUAGAACGCA 19
```

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RESULT 423
US-10-919-866-23
/ Sequence 23, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ TITLE OF INVENTION: Acid (siNA)
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ PRIOR FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
```

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/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 23
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-23
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Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 399 AUGGCGCCUAGGAGACUG 417
Db 1 AUGGCGCCUAGGAGACUG 19
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RESULT 424
US-10-919-866-24
/ Sequence 24, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ TITLE OF INVENTION: Acid (siNA)
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ PRIOR FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 24
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-24
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```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 417 GCGCUGGACCUUGGCUU 435
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```

; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-27

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      471 GAUUCUUCGUGUACAGC 489
DB      1 GAUUCUUCGUGUACAGC 19
```

```

RESULT 428
US-10-919-866-28
; Sequence 28, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-28
```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      489 CUUUGACAGUACUUUCC 507
DB      1 CUUUGACAGUACUUUCC 19
```

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RESULT 429
US-10-919-866-29
; Sequence 29, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 29
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-29
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```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      507 CAUUCAGAGCGCGUCACG 525
DB      1 CAUUCAGAGCGCGUCACG 19
```

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RESULT 430
US-10-919-866-30
; Sequence 30, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
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; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 30
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-30

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      525 GUACGAGCGCAACGACA 543
DB      1 GUACGAGCGCAACGACA 19

RESULT 431
US-10-919-866-31
; Sequence 31, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
```

```

; SEQ ID NO 31
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-31

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      543 AACAAAGAGCGCGUGUG 561
DB      1 AACAAAGAGCGCGUGUG 19

RESULT 432
US-10-919-866-32
; Sequence 32, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-32

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      561 GAUGAUGGUGUGGUGUGG 579
DB      1 GAUGAUGGUGUGGUGUGG 19

RESULT 433
US-10-919-866-33
```

```
Sequence 33, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 33
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-33
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 GGGCAUCCUCCUUGUCCU 597
DB 1 GGGCAUCCUCCUUGUCCU 19

RESULT 434
US-10-919-866-34
Sequence 34, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
```

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PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 34
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-34
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 597 UUGGGUCCUCCUCCUUG 615
DB 1 UUGGGUCCUCCUCCUUG 19

RESULT 435
US-10-919-866-35
Sequence 35, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 35
LENGTH: 19
TYPE: RNA
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-35

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 615 UCCGCGAGAGUCGUCU 651
|||||
DB 1 UCGAAGAGAGACUCGUCU 19

RESULT 436
US-10-919-866-36
; Sequence 36, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-36

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 633 UCGAAGAGAGACUCGUCU 651
|||||
DB 1 UCGAAGAGAGACUCGUCU 19

RESULT 437
US-10-919-866-37
; Sequence 37, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-37

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 651 UCCGCGAGAGUCGUCU 669
|||||
DB 1 UCCGCGAGAGUCGUCU 19

RESULT 438
US-10-919-866-38
; Sequence 38, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-38
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; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siRNA sense
US-10-919-866-38

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;

QY
669 UCAGUUCUCCAGGAGCCC 687
1 UCAGUUCUCCAGGAGCCC 19

RESULT 439
US-10-919-866-39
; Sequence 39, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEH04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 39
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siRNA sense

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US-10-919-866-39

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;

QY
687 CACCAUACUUCUGGACCA 705
1 CACCAUACUUCUGGACCA 19

RESULT 440
US-10-919-866-40
; Sequence 40, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEH04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siRNA sense
US-10-919-866-40

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;

QY
705 AGCCAUCCGCGCUUUUUAU 723
1 AGCCAUCCGCGCUUUUUAU 19

RESULT 441
US-10-919-866-41
; Sequence 41, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James

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; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-41

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      723 UAUCCUGGACCAUUAUG 741
Db      1 UAUCCUGGACCAUUAUG 19

RESULT 442
US-10-919-866-42
; Sequence 42, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
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; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-42

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      741 GACUAAUUUAACUGAGG 759
Db      1 GACUAAUUUAACUGAGG 19

RESULT 443
US-10-919-866-43
; Sequence 43, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-43

Query Match          1.1%; Score 19; DB 1; Length 19;
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Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 759 GAUCUUAAGCAAGCUGAA 777
|||||
Db 1 GAUCUUAAGCAAGCUGAA 19

RESULT 444

US-10-919-866-44

; Sequence 44, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)

; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 795 UGUGGCTUGCAAGCUCU 813
|||||
Db 1 UGUGGCTUGCAAGCUCU 19

RESULT 446

US-10-919-866-46

; Sequence 46, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20

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; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 46
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-46

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      813 UGGACAGAGCGCAGAGACA 831
Db      1 UGGACAGAGCGCAGAGACA 19

RESULT 447
US-10-919-866-47
; Sequence 47, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 47
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-47

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      831 AGAAAACTUUCGCCACCCC 849
Db      1 AGAAAACTUUCGCCACCCC 19

RESULT 448
US-10-919-866-48
; Sequence 48, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 48
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-48

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      849 CACGGCAGUUCUGCAAGC 867
Db      1 CACGGCAGUUCUGCAAGC 19

RESULT 449
US-10-919-866-49
; Sequence 49, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
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; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 49
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-49

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```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      867 CUGCAGCAGUACGAACUU 885
      |||||||
Db      1 CUGCAGCAGUACGAACUU 19

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RESULT 450
US-10-919-866-50
; Sequence 50, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-51

```

```

; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 50
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-50

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      885 UCACGACGAAAGCAUGAAA 903
      |||||||
Db      1 UCACGACGAAAGCAUGAAA 19

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RESULT 451
US-10-919-866-51
; Sequence 51, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-51

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      903 ACGCUCGACGAGGAGAG 921
      |||||||
Db      1 ACGCUCGACGAGGAGAG 19

```

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RESULT 452
US-10-919-866-52
; Sequence 52, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 52
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      921 GUAGGCGCGUGCCACUUC 939
DB      1 GUAGGCGCGUGCCACUUC 19
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RESULT 453
US-10-919-866-53
; Sequence 53, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      939 CUGGUCACACCAAGAGC 957
DB      1 CUGGUCACACCAAGAGC 19

RESULT 454
US-10-919-866-54
; Sequence 54, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324

; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 53
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 57
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-57

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1011 GAACACAUGAUGCUCGU 1029
Db      1 GAACACAUGAUGCUCGU 19

RESULT 458
US-10-919-866-58
; Sequence 58, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 58
; LENGTH: 19
```

```

; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-58

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1029 UGCUCUCCUGAGAACUCC 1047
Db      1 UGCUCUCCUGAGAACUCC 19

RESULT 459
US-10-919-866-59
; Sequence 59, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-B)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 59
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-59

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1047 CGCUCUCCUGAGAGAGAG 1065
Db      1 CGCUCUCCUGAGAGAGAG 19

RESULT 460
US-10-919-866-60
; Sequence 60, Application US/10919866
; Publication No. US20050176664A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 60
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-60

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1065 GGACAUUGGCUCCGAGACG 1083
Db      1 GGACAUUGGCUCCGAGACG 19

RESULT 461
US-10-919-866-61
; Sequence 61, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 61
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-61
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; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 61
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-61

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1083 GAGGCCAUCGACUCCGAC 1101
Db      1 GAGGCCAUCGACUCCGAC 19

RESULT 462
US-10-919-866-62
; Sequence 62, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 62
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-62
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; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-62
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1101 CGUGCCACGACUCCGGGU 1119
      |||||
DB       1  CGUGCCACGACUCCGGGU 19

RESULT 463
US-10-919-866-63
; Sequence 63, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 63
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sigma Therapeutics
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-63
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1119 UCACGACGACUCCUAC 1137
      |||||
DB       1  UCACGACGACUCCUAC 19

RESULT 464
US-10-919-866-64
; Sequence 64, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
```

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; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-64
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1137 CUCCACGAGUACCCUCA 1155
      |||||
DB       1  CUCCACGAGUACCCUCA 19

RESULT 465
US-10-919-866-65
; Sequence 65, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
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; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-65

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1155 AUGGAGCAACUUGCAGUG 1173
DB 1 AUGGAGCAACUUGCAGUG 19

RESULT 466
US-10-919-866-66
; Sequence 66, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 66
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-66
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```

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1173 GCCUGAGGAGGAGCUGGGG 1191
DB 1 GCCUGAGGAGGAGCUGGGG 19

RESULT 467
US-10-919-866-67
; Sequence 67, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 67
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-67

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1191 GAUGUGGACUUGCAGAGG 1209
DB 1 GAUGUGGACUUGCAGAGG 19

RESULT 468
US-10-919-866-68
; Sequence 68, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
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; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 68
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-68

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1209 GAAGCCGACGAGCTGCGAG 1227
Db      1 GAAGCCGACGAGCTGCGAG 19
|||||
|||||

RESULT 469
US-10-919-866-69
; Sequence 69, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 69
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-69

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1227 GGCCCGAAGAGCGUGGAC 1245
Db      1 GGCCCGAAGAGCGUGGAC 19
|||||
|||||

RESULT 470
US-10-919-866-70
; Sequence 70, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 70
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-70

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1245 CGAUGAGGAGUUUCCA 1263
|||||
Db 1 CGAUGAGGAGUUUCCA 19

RESULT 471

US-10-919-866-71
; Sequence 71, Application US/10919866
; Publication No. US20050176664A1

GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)

FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17

PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24

PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16

PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14

PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24

PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23

PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23

PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20

PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20

PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20

Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3

SEQ ID NO 71
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence

FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-71

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1263 AAAAGCUCUCCAGCUCU 1281
|||||
Db 1 AAAAGCUCUCCAGCUCU 19

RESULT 472
US-10-919-866-72
; Sequence 72, Application US/10919866
; Publication No. US20050176664A1

GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)

FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866

;;

;; CURRENT FILING DATE: 2004-08-17
;; PRIOR APPLICATION NUMBER: US 10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: PCT/US04/16390
;; PRIOR FILING DATE: 2004-05-24
;; PRIOR APPLICATION NUMBER: US 10/826,966
;; PRIOR FILING DATE: 2004-04-16
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-11-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2002-02-20
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 324
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 72
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-72

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1281 UCCCAUCCAGCUAGAGUCA 1299
|||||
Db 1 UCCCAUCCAGCUAGAGUCA 19

RESULT 473
US-10-919-866-73
; Sequence 73, Application US/10919866
; Publication No. US20050176664A1

GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)

FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028

```

; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-73

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1299 AGCCGUGACAGACGCUAG 1317
Db      1 AGCCGUGACAGACGCUAG 19

RESULT 474
US-10-919-866-74
; Sequence 74, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 74
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-74

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1317 GACUUCUGACGUCACUCC 1335
Db      1 GACUUCUGACGUCACUCC 19
```

```

Db      1 GACUUCUGACGUCACUCC 19

RESULT 475
US-10-919-866-75
; Sequence 75, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 75
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-75

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1335 CUCAGUGGUGUAGACACG 1353
Db      1 CUCAGUGGUGUAGACACG 19

RESULT 476
US-10-919-866-76
; Sequence 76, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
```

```
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 76
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-76
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```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1353 GGCCACUCUACUCUCUCC 1371
Db      1 GGCCACUCUACUCUCUCC 19
```

```
RESULT 477
US-10-919-866-77
; Sequence 77, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
```

```
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 77
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-77
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1371 CUUCAAGAGAGCCACUCUG 1389
Db      1 CUUCAAGAGAGCCACUCUG 19
```

```
RESULT 478
US-10-919-866-78
; Sequence 78, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-78
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1389 GGCCAGAGAGUUGUCUCUG 1407
Db      1 GGCCAGAGAGUUGUCUCUG 19
```

```

PRIORITY FILING DATE: 2004-04-16
PRIORITY APPLICATION NUMBER: US 10/757,803
PRIORITY FILING DATE: 2004-01-14
PRIORITY APPLICATION NUMBER: US 10/720,448
PRIORITY FILING DATE: 2003-11-24
PRIORITY APPLICATION NUMBER: US 10/693,059
PRIORITY FILING DATE: 2003-11-23
PRIORITY APPLICATION NUMBER: US 10/444,853
PRIORITY FILING DATE: 2003-05-23
PRIORITY APPLICATION NUMBER: PCT/US03/05346
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: PCT/US03/05028
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: US 60/358,580
PRIORITY FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 80
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siRNA sense r
US-10-919-866-80

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1425 CACUAGCGGAAAAGGAGUG 1443
DB 1 CACUAGCGGAAAAGGAGUG 19

RESULT 481
US-10-919-866-81
Sequence 81, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siRNA)
FILE REFERENCE: 400/205 (MEH804-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIORITY APPLICATION NUMBER: US 10/798,090
PRIORITY FILING DATE: 2004-03-11
PRIORITY APPLICATION NUMBER: PCT/US04/16390
PRIORITY FILING DATE: 2004-05-24
PRIORITY APPLICATION NUMBER: US 10/826,966
PRIORITY FILING DATE: 2004-04-16
PRIORITY APPLICATION NUMBER: US 10/757,803
PRIORITY FILING DATE: 2004-01-14
PRIORITY APPLICATION NUMBER: US 10/720,448
PRIORITY FILING DATE: 2003-11-24
PRIORITY APPLICATION NUMBER: US 10/693,059
PRIORITY FILING DATE: 2003-11-23
PRIORITY APPLICATION NUMBER: US 10/444,853
PRIORITY FILING DATE: 2003-05-23
PRIORITY APPLICATION NUMBER: PCT/US03/05346
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: PCT/US03/05028
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: US 60/358,580
PRIORITY FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 81

```

```

; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-81
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1443 GUCCUGGUCAGAGGAG 1461
Db      1 GUCCUGGUCAGAGGAG 19
```

```

RESULT 482
US-10-919-866-82
; Sequence 82, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 82
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-82
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1461 GAAAGCGGCCGAGACCCUC 1479
Db      1 GAAAGCGGCCGAGACCCUC 19
```

```

RESULT 483
US-10-919-866-83
; Sequence 83, Application US/10919866
```

```

; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 83
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-83
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1479 CAGUGGAGUCUGGCGCC 1497
Db      1 CAGUGGAGUCUGGCGCC 19
```

```

RESULT 484
US-10-919-866-84
; Sequence 84, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
```

```
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 84
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-84

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1497 CUUCAUCAUCACUGGACC 1515
Db      1 CUUCAUCAUCACUGGACC 19

RESULT 485
US-10-919-866-85
; Sequence 85, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 85
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-85

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1515 CCCAUCACAACCAUCGUGU 1533
Db      1 CCCAUCACAACCAUCGUGU 19

RESULT 486
US-10-919-866-86
; Sequence 86, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-86

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1533 UCUGUGAACAACCCUUUGU 1551
Db      1 UCUGUGAACAACCCUUUGU 19

RESULT 487
US-10-919-866-87
; Sequence 87, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
```

```

; APPLICANT: Richards, Ivan
; APPLICANT: MCSw1gsen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-87

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No: 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1551 UGACGAGCUGCAUACCCCAA 1569
Db      1 UGACGAGCUGCAUACCCCAA 19

RESULT 488
US-10-919-866-88
; Sequence 88, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSw1gsen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
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; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-88

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No: 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1569 AACCUUUUGAAUUCUGGCG 1587
Db      1 AACCUUUUGAAUUCUGGCG 19

RESULT 489
US-10-919-866-89
; Sequence 89, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSw1gsen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-89
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Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1587 CUACUGGCUUGGCUACAUCC 1605
      |||||
DB      1 CUACUGGCUUGGCUACAUCC 19

RESULT 490
US-10-919-866-90
; Sequence 90, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 90
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-90

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1605 CAACAGCACCGUACACCCC 1623
      |||||
DB      1 CAACAGCACCGUACACCCC 19

RESULT 491
US-10-919-866-91
; Sequence 91, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
```

```
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 91
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-91

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1623 CGUGUGCUAUGGCUUGGC 1641
      |||||
DB      1 CGUGUGCUAUGGCUUGGC 19

RESULT 492
US-10-919-866-92
; Sequence 92, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
```


PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 92
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-92

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1641 CACAAACAUCCAGAAC 1659
DB 1 CACAAACAUCCAGAAC 19

RESULT 493
US-10-919-866-93
Sequence 93, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 93
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-93

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1659 CACUUCACAGUUGUCUG 1677
DB 1 CACUUCACAGUUGUCUG 19

RESULT 494
US-10-919-866-94
Sequence 94, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 94
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-94

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1677 GCUGGCGAGUGGACAA 1695
DB 1 GCUGGCGAGUGGACAA 19

RESULT 495
US-10-919-866-95
Sequence 95, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)

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; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 95
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-95

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1695 AAAAAAGAGCGCAAGCAG 1713
Db      1 AAAAAAGAGCGCAAGCAG 19

RESULT 496
US-10-919-866-96
; Sequence 96, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 96
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-96
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```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1713 GCAGUACGACGAGACAG 1731
Db      1 GCAGUACGACGAGACAG 19
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RESULT 497
US-10-919-866-97
; Sequence 97, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 97
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r
US-10-919-866-97

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1731 GUCGUCAUUUUUCACAG 1749
```

```
DB      1  GCGCGCAUUUUCACAG 19
|||||
RESULT 498
US-10-919-866-98.
; Sequence 98, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 98
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; APPLICANT: Richards, Ivan
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-98
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1749 GCGCGACCCGAGCAGGCC 1767
|||||
DB      1  GCGCGCACCCGAGCAGGCC 19
|||||
RESULT 499
US-10-919-866-99
; Sequence 99, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
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; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-99
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1753 GCACCCGAGCAGGCGCTUUGU 1771
|||||
DB      1  GCACCCGAGCAGGCGCTUUGU 19
|||||
RESULT 500
US-10-919-866-100/c
; Sequence 100, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-919-866-99
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Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-100

Query Match
Best Local Similarity 78.9%; Score 19; DB 1; Length 19;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 3 GACCTTGACATTAACAGT 21
DB 19 GACCTTGACATTAACAGT 1

RESULT 501
US-10-919-866-101/c
; Sequence 101, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 101
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-101

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACACCTGCGCCUUGGUTU 39
DB 19 TACACCTGCGCCCTTGTGTT 1
```

```
RESULT 502
US-10-919-866-102/c
; Sequence 102, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 102
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-102

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 39 UCCAAACATCAGCTCCTCC 57
DB 19 TCCAAACATCAGCTCCTCC 1

RESULT 503
US-10-919-866-103/c
; Sequence 103, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
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; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 103
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-103
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      57 CUGAUAACAGAGCCGCCUCC 75
Db      19 CTGGATACACAGCCCTCC 1
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```
RESULT 504
US-10-919-866-104/c
; Sequence 104, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
```

```
; SEQ ID NO 104
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-104
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      75 CGAUGCAGGCGUCCGCCCG 93
Db      19 CGATGACAGGCGCTCCCG 1
```

```
RESULT 505
US-10-919-866-105/c
; Sequence 105, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 105
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-105
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      93 GGGACCGGACGACUUC 111
Db      19 GGGACCGGACGACUUC 1
```

```
RESULT 506
US-10-919-866-106/c
```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-108

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY      147 CUCCUCCGACGAGGACC 165
Db      19 CTCCTCTCCAGCGTACC 1

RESULT 509
US-10-919-866-109/c
; Sequence 109, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 109
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-109

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY      165 CACCGAGGACCCUUGGGA 183
Db      19 CACCGATGACCCCTGGGA 1

RESULT 510
US-10-919-866-110/c
; Sequence 110, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 110
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-110

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY      183 AGGUCAGACCGUCGCAA 201
Db      19 AGGTCAACCGTGGCAA 1

RESULT 511
US-10-919-866-111/c
; Sequence 111, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 111
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-111
```

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; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 111
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; US-10-919-866-111

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      201 AGUGUCUUCAUUGCUUUC 219
Db      19 AGTGGCTTCATCGCTTTC 1

RESULT 512
US-10-919-866-112/c
; Sequence 112, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 112
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; US-10-919-866-111
```

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US-10-919-866-112

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      219 CUUACGGGCAUCUGGCC 237
Db      19 CTTAAGGACATCTGGCC 1

RESULT 513
US-10-919-866-113/c
; Sequence 113, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 113
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; US-10-919-866-113

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      237 CUUGGACCAUCAGCGC 255
Db      19 CTTGGACCATCTGGCC 1

RESULT 514
US-10-919-866-114/c
; Sequence 114, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; US-10-919-866-114/c
```



```

; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-114

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      255 CACAUCCUGUAUUGUG 273
Db      19 CACATCCTGTAATGTG 1

RESULT 515
US-10-919-866-115/C
; Sequence 115, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
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; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 115
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-115

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      273 GCUAUUAGGCUACACAG 291
Db      19 GTCATTAAAGTCACACAG 1

RESULT 516
US-10-919-866-116/C
; Sequence 116, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 116
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-116

Query Match      1.1%; Score 19; DB 1; Length 19;
```

Best Local Similarity 89.5%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 17; Conservative 2; Mismatches 0;

Qy 291 GCAGCUGAAGACGUCAC 309
|||:|||||:|||||:
Db 19 GCAGCTGAAGACGTCAC 1

RESULT 517
US-10-919-866-117/c

; Sequence 117, Application US/10919866
; Publication No. US20050176664A1

; GENERAL INFORMATION:

; APPLICANT: Sigma Therapeutics, Inc.

; APPLICANT: Richards, Ivan

; APPLICANT: McSwiggen, James

; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

; TITLE OF INVENTION: Acid (siRNA)

; FILE REFERENCE: 400/205 (MEHB04-183-A)

; CURRENT APPLICATION NUMBER: US/10/919,866

; PRIOR FILING DATE: 2004-08-17

; PRIOR APPLICATION NUMBER: US 10/798,090

; PRIOR FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: PCT/US04/16390

; PRIOR FILING DATE: 2004-05-24

; PRIOR APPLICATION NUMBER: US 10/826,966

; PRIOR FILING DATE: 2004-04-16

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-11-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: PCT/US03/05028

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 324

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 117

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Artificial Sequence

; FEATURE: Description of Artificial Sequence: siRNA antisense region

; US-10-919-866-117

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 309 CACACUCCUCCUUAAGC 327
|||:|||||:|||||:
Db 19 CAACTACTCTCTTAAGC 1

RESULT 518
US-10-919-866-118/c

; Sequence 118, Application US/10919866
; Publication No. US20050176664A1

; GENERAL INFORMATION:

; APPLICANT: Sigma Therapeutics, Inc.

; APPLICANT: Richards, Ivan

; APPLICANT: McSwiggen, James

; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

; TITLE OF INVENTION: Acid (siRNA)

; FILE REFERENCE: 400/205 (MEHB04-183-A)

; CURRENT APPLICATION NUMBER: US/10/919,866

; PRIOR FILING DATE: 2004-08-17

; PRIOR APPLICATION NUMBER: US 10/798,090

; PRIOR FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: PCT/US04/16390

; PRIOR FILING DATE: 2004-05-24

; PRIOR APPLICATION NUMBER: US 10/826,966

; PRIOR FILING DATE: 2004-04-16

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-11-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: PCT/US03/05028

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/358,580

; PRIOR FILING DATE: 2002-02-20

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 324

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 118

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Artificial Sequence

; FEATURE: Description of Artificial Sequence: siRNA antisense region

; US-10-919-866-118

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 327 CCUGCCUGGCCGACUG 345
||:|||||:|||||:
Db 19 CCTGGCTGTGGCACTG 1

RESULT 519
US-10-919-866-119/c

; Sequence 119, Application US/10919866
; Publication No. US20050176664A1

; GENERAL INFORMATION:

; APPLICANT: Sigma Therapeutics, Inc.

; APPLICANT: Richards, Ivan

; APPLICANT: McSwiggen, James

; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

; FILE REFERENCE: 400/205 (MEHB04-183-A)

; CURRENT APPLICATION NUMBER: US/10/919,866

; PRIOR FILING DATE: 2004-08-17

; PRIOR APPLICATION NUMBER: US 10/798,090

; PRIOR FILING DATE: 2004-03-11

; PRIOR APPLICATION NUMBER: PCT/US04/16390

; PRIOR FILING DATE: 2004-05-24

; PRIOR APPLICATION NUMBER: US 10/826,966

; PRIOR FILING DATE: 2004-04-16

; PRIOR APPLICATION NUMBER: US 10/757,803

; PRIOR FILING DATE: 2004-01-14

; PRIOR APPLICATION NUMBER: US 10/720,448

; PRIOR FILING DATE: 2003-11-24

; PRIOR APPLICATION NUMBER: US 10/693,059

; PRIOR FILING DATE: 2003-11-23

; PRIOR APPLICATION NUMBER: US 10/444,853

; PRIOR FILING DATE: 2003-05-23

; PRIOR APPLICATION NUMBER: PCT/US03/05346

; PRIOR FILING DATE: 2003-02-20

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; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patent version 3.3
; SEQ ID NO 119
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-119

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy      345 GAUUAUGGAGUUAUUA 363
Db      19 GATTATCGGGCTATTCA 1

RESULT 520
US-10-919-866-120/c
; Sequence 120, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patent version 3.3
; SEQ ID NO 120
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-120

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
```

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Qy      363 AAUGAAUUGUUUACGACC 381
Db      19 AATGAATCTGTTACAGCC 1

RESULT 521
US-10-919-866-121/c
; Sequence 121, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patent version 3.3
; SEQ ID NO 121
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-121

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      381 CUACAUCACUAGAUAUGCA 399
Db      19 CTACATCATCATGAATGCA 1

RESULT 522
US-10-919-866-122/c
; Sequence 122, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
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RESULT 525
US-10-919-866-125/c
; Sequence 125, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 125
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390

Query Match
Best Local Similarity 68.4%; Score 19; DB 1; Length 19;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 453 CAGCAUGCCUCUGUUAUG 471
DB 19 CAGCAATGCTCTGTTATG 1

RESULT 526
US-10-919-866-126/c
; Sequence 126, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
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; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 126
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324

RESULT 527
US-10-919-866-127/c
; Sequence 127, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324

QY 471 GAUCUCUGUACUACAGC 489
DB 19 GAATCTTCTGTCATCAGC 1

Query Match
Best Local Similarity 68.4%; Score 19; DB 1; Length 19;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

US-10-919-866-126
; Sequence 126, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
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; SOFTWARE: Patentin version 3.3
; SEQ ID NO 127
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-127

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      489 CUUUGACAGUACUUUCC 507
Db      19 CTTGACAGATCTTTTC 1

RESULT 528
US-10-919-866-128/c
; Sequence 128, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 128
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-128

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      507 CAUACGAGCGCGUACG 525
Db      19 CATCAGAGCGCGCTCAG 1

RESULT 529
US-10-919-866-129/c
; Sequence 129, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 129
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-129

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      525 GUACGAGCGCAACGACA 543
Db      19 GTACCGAGCGCAACGACA 1

RESULT 530
US-10-919-866-130/c
; Sequence 130, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 130
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-130

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      543 AACAAAGAGAGCCGGUG 561
DB      19 AACAAAGAGAGCCGGTGTG 1

RESULT 531
US-10-919-866-131/c
; Sequence 131, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 131
; LENGTH: 19
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; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-131

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      561 GAUGAUGGUGGUGGUGG 579
DB      19 GATGATGCTGCTGCTTGG 1

RESULT 532
US-10-919-866-132/c
; Sequence 132, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 132
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-132

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 4.3e+02;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

QY      579 GGUGAUGGUGGUGGUGG 597
DB      19 GGTCATCTCTTGTCTT 1

RESULT 533
US-10-919-866-133/c
; Sequence 133, Application US/10919866
; Publication No. US20050176664A1
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/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 133
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
/ US-10-919-866-133

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY      597 UUGGCUCCUCCGCAUCUCUG 615
DB      19 TTGGGCTCCTGCCATCTTG 1

RESULT 534
US-10-919-866-134/C
/ Sequence 134, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
```

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/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 134
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
/ US-10-919-866-134

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 4.3e+02;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

QY      615 GUUCUGCAUAUCUUGUCU 633
DB      19 GTTCTGGCAATACTTGTGT 1

RESULT 535
US-10-919-866-135/C
/ Sequence 135, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 135
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
```



```
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-135

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      633 UGGAAGAGACGUGCCU 651
      :|||||:|||||:|||||:
Db      19 TCGAAGAGACTGCTCCT 1

RESULT 536
US-10-919-866-136/c
; Sequence 136, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-136

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      651 UCCGGAGAGUGUCU 669
      :|||||:|||||:|||||:
Db      19 TCCGGAGAGTCTCTATT 1

RESULT 537
US-10-919-866-137/c
; Sequence 137, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23

APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23

US-10-919-866-138/c
; Sequence 138, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23

QY      669 UCAGUUCUCAGUGAGCCC 687
      :|||||:|||||:|||||:
Db      19 TCAATTCTCAGTGAAGCCC 1

RESULT 538
US-10-919-866-138/c
; Sequence 138, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      669 UCAGUUCUCAGUGAGCCC 687
      :|||||:|||||:|||||:
Db      19 TCAATTCTCAGTGAAGCCC 1
```

```
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 138
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-138
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      687 CACCAUACUUGGCACA 705
Db      19 CACCACTTCTTGGCACA 1
```

```
RESULT 539
US-10-919-866-139/c
; Sequence 139, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 139
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-139
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      705 ACCCAUCCGUCUUNUUAU 723
Db      19 AGCCATCGCTGCTTTTAT 1
```

```
RESULT 540
US-10-919-866-140/c
; Sequence 140, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 140
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-140
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      723 UAUCCUGUACCAUUAUG 741
Db      19 TATGCTGTCAACCAATTAT 1
```

```
RESULT 541
US-10-919-866-141/c
; Sequence 141, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
```

```

; TITLE OF INVENTION: Acid (sRNA)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patent version 3.3
; SEQ ID NO 141
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-919-866-141

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      741 GACUUAUUUAACUGAGG 759
Db      19 GACTTATTACTGAGG 1

```

```

RESULT 542
US-10-919-866-142/c
; Sequence 142, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346

```

```

; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patent version 3.3
; SEQ ID NO 142
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-919-866-142

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      759 GAUCUUAAGAAACUGAA 777
Db      19 GATCTATTAGAAACTGAA 1

```

```

RESULT 543
US-10-919-866-143/c
; Sequence 143, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patent version 3.3
; SEQ ID NO 143
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
US-10-919-866-143

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

QY 777 AAGCGUACCAAGACCTU 795
|||||:|||||:|
Db 19 AAGGCTACCAAGACCTT 1

RESULT 544
US-10-919-866-144/c
; Sequence 144, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 144
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-144

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 795 UCGUGCCUGCAAGCCTCU 813
:|||||:|||||:|
Db 19 TGCTGCGCTGCAAGCCTCT 1

RESULT 545
US-10-919-866-145/c
; Sequence 145, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866

; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 145
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-145

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 813 UGCGACAGCGCAGACACA 831
:|||||:|||||:|
Db 19 TGGACAGAGCGCAGACACA 1

RESULT 546
US-10-919-866-146/c
; Sequence 146, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 146
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-146

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 831 AGAAAACUUGUCCACCCC 849
|||||:|||||
Db 19 AGAAAACUUGUCCACCCC 1

RESULT 547
US-10-919-866-147/C
Sequence 147, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McGivgen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 147
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-147

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 849 CACGGCAGUUCGAAAC 867
|||||:|||||

Db 19 CACGGCAGUUCGAAAC 1

RESULT 548
US-10-919-866-148/C
Sequence 148, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McGivgen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 148
LENGTH: 19
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-148

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 867 CUCGACAGUACGAACU 885
||:|||||:|||||
Db 19 CUCGACAGUACGAACU 1

RESULT 549
US-10-919-866-149/C
Sequence 149, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McGivgen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11

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; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 149
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-149

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      885 UCAACAGCAAGCAUGAAA 903
      :|||||:|||||:|||||
DB      19 TCAACAGCAAGCATGAAA 1

RESULT 550
US-10-919-866-150/c
; Sequence 151, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 151
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-151

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 150
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-150

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY      903 ACGTCCACAGAGAGAG 921
      |||||:|||||:|||||
DB      19 ACGTCCACAGAGAGAG 1

RESULT 551
US-10-919-866-151/c
; Sequence 151, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 151
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-151

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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RESULT 552
US-10-919-866-152/c
; Sequence 152, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 152
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 154
```

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RESULT 554
US-10-919-866-154/c
; Sequence 154, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 154
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```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-154

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      975 GGAGAGGACCAAGACCAC 993
Db      19 GGAGATGACCAAGACCAC 1

RESULT 555
US-10-919-866-155/c
; Sequence 155, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 155
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-155

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      993 CAGCAGCAGGACGAGGUGG 1011
Db      19 CAGCAGCAGGAGAGTTGG 1

RESULT 556
US-10-919-866-156/c
; Sequence 156, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 156
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-156

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1011 GAACACCAUAGUGCTGCTU 1029
Db      19 GAACACCAATGATGTGCT 1

RESULT 557
US-10-919-866-157/c
; Sequence 157, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
```



```
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 157
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-157

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1029 UGCGUCCUGGAGACUCC 1047
Db      19 TGCCTCTCGAGACTCC 1

RESULT 558
US-10-919-866-158/c
/ Sequence 158, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 158
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-159

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1065 GGACAUUGGCGAGAGC 1083
Db      19 GGACATTGGCTCGAGAGC 1

RESULT 560
US-10-919-866-160/c
/ Sequence 160, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
```

```

; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 160
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-160

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1083 GAGAGCCATCAGCUCGCAUC 1101
DB      19 GAGAGCATCTACTCCATC 1

RESULT 561
US-10-919-866-161/c
; Sequence 161, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 162
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-162
```

```

; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 161
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-161

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1101 CGUGCUCAGCUCUCCGCGU 1119
DB      19 CGGCTCAGCTTCCGGGT 1

RESULT 562
US-10-919-866-162/c
; Sequence 162, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 162
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-162
```



```

; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 165
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-165

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1173 GCCTGAGAGAGAGCTGGGG 1191
DB      19  GCCTGAGAGAGAGCTGGGG 1

RESULT 566
US-10-919-866-166/c
; Sequence 166, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEH804-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 166
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-166

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
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Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1191 GAUGUGAGACUUGAGAGG 1209
DB      19  GAUGUGAGACUUGAGAGG 1

RESULT 567
US-10-919-866-167/c
; Sequence 167, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEH804-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-167

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1209 GAAGCGGACAGCTGCAG 1227
DB      19  GAAGCGGACAGCTGCAG 1

RESULT 568
US-10-919-866-168/c
; Sequence 168, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEH804-183-A)
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; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 168
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-168

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```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY      1227 GGCCCGAGAGCGUGGAC 1245
DB      19 GGCCCGAGAGCGGTGAC 1

```

```

RESULT 569
US-10-919-866-169/c
; Sequence 169, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028

```

```

; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 169
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-169

```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

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QY      1245 CGAUGAGGCGAGUUUCCA 1263
DB      19 CGATGAGGCGAGTTTCCA 1

```

```

RESULT 570
US-10-919-866-170/c
; Sequence 170, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 170
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-170

```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

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```

QY      1263 AAAAGCUCUCCAGGCUU 1281

```

```
Db      19 AAAAGCTTCTCCAGCTT 1
|||||:|||||:
RESULT 571
US-10-919-866-171/c
; Sequence 171, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 171
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-171

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1281 UCCCAUCCAGCUAGUCA 1299
:|||||:|||||:|||||:
Db      19 TCCCAATCCAGCTAGACTCA 1

RESULT 572
US-10-919-866-172/c
; Sequence 172, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 172
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-172

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1299 AGCCGUGACACAGCUAG 1317
|||||:|||||:|||||:
Db      19 AGCCGTGACACAGCTAAG 1

RESULT 573
US-10-919-866-173/c
; Sequence 173, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 173
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-173
```

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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 173
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-173

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1317 GACUUCUGACUGCAACUCC 1335
DB 19 GACTTCTGACTGCACTGCC 1

RESULT 574
US-10-919-866-174/c
; Sequence 174, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 174
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-174

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1335 CUCAGUGGUAGACACG 1353
DB 19 CTCAGTGGGTAGACACG 1
```

```

RESULT 575
US-10-919-866-175/c
; Sequence 175, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nuclei-
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 175
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-175

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1353 GGCACGUCUACGUCUGUC 1371
DB 19 GGCACCTTACTCTGTGCC 1

RESULT 576
US-10-919-866-176/c
; Sequence 176, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nuclei-
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
```

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; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 176
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-176
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1371 CUUCAAGAACCCACUCUG 1389
Db      19 CTTCAAGAAAGCCACTCTG 1
```

```
RESULT 577
US-10-919-866-177/c
; Sequence 177, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
```

```
; SEQ ID NO 177
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-177
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1389 GGCACAGAGUUGUCUCUG 1407
Db      19 GGCACAGAGGTTCCTCTG 1
```

```
RESULT 578
US-10-919-866-178/c
; Sequence 178, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 178
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-178
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1407 GAAGACCAAGUCAGAUUC 1425
Db      19 GAAGACCAAGATCAGATC 1
```

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RESULT 579
US-10-919-866-179/c
```



```
Sequence 179, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 179
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-179
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1425 CACUAGCGGAAAGGATG 1443
Db 19 CACTAAGCGGAAAGGATG 1
RESULT 580
US-10-919-866-180/c
; Sequence 180, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
```

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; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 180
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-180
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1443 GUCCUGGUCAGAGAG 1461
Db 19 GTCCCTGTCAGAGAG 1
RESULT 581
US-10-919-866-181/c
; Sequence 181, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181
; LENGTH: 19
; TYPE: RNA
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-181
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1461 GAAGCGGCCGAGCCGUC 1479
Db      19 GAAGCGGCCGAGCCCTC 1

RESULT 582
US-10-919-866-182/c
; Sequence 182, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-182
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy      1479 CAGUGCAUCUGCUGGCC 1497
Db      19 CAGTGCATCTTGCTGCC 1

RESULT 583
US-10-919-866-183/c
; Sequence 183, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 183
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-183
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy      1497 CUUCAUUAUACUUGAGCC 1515
Db      19 CTTGATCATCATCTTGAGCC 1

RESULT 584
US-10-919-866-184/c
; Sequence 184, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
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; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 184
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-919-866-184

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 4.3e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1515 CCCAACAACAUCAUGGU 1533
DB      19 CCCATCAACATCATGTT 1

RESULT 585
US-10-919-866-185/c
; Sequence 185, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (s1NA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 185
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
```

```

US-10-919-866-185

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 4.3e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      1533 UCUGUGAACACCCUUGU 1551
DB      19 TCTGTGAACACCTTTGT 1

RESULT 586
US-10-919-866-186/c
; Sequence 186, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (s1NA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
US-10-919-866-186

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1551 UGACAGTGCACCAACCA 1569
DB      19 TGACAGCTGCATACCCAA 1

RESULT 587
US-10-919-866-187/c
; Sequence 187, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (s1NA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 187
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA antisense region
```

```

; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 187
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-187

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1569 AACCUUGGAUUCUGGCGC 1587
DB      19 AACCTTTGGAATCTGGCC 1

RESULT 588
US-10-919-866-188/c
; Sequence 188, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
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; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 188
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-188

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1587 CUACUGGCTUGGCUACUAC 1605
DB      19 CTACGGCTGTGCTACATC 1

RESULT 589
US-10-919-866-189/c
; Sequence 189, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 189
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-189

Query Match      1.1%; Score 19; DB 1; Length 19;
```

Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1605 CAACGACCGUGAACCC 1623

Db 19 CAACGACCGUGAACCC 1

RESULT 590

US-10-919-866-190/c

Sequence 190, Application US/10919866

Publication No. US20050176664A1

GENERAL INFORMATION:

APPLICANT: Sigma Therapeutics, Inc.

APPLICANT: Richards, Ivan

APPLICANT: MCSwigen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

TITLE OF INVENTION: Acid (sRNA)

FILE REFERENCE: 400/205 (MEHB04-183-A)

CURRENT APPLICATION NUMBER: US/10/919,866

PRIOR FILING DATE: 2004-08-17

PRIOR APPLICATION NUMBER: US 10/798,090

PRIOR FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: PCT/US04/16390

PRIOR FILING DATE: 2004-05-24

PRIOR APPLICATION NUMBER: US 10/826,966

PRIOR FILING DATE: 2004-04-16

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-11-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 324

SOFTWARE: PatentIn version 3.3

SEQ ID NO 190

LENGTH: 19

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region

US-10-919-866-190

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 63.2%; Pred. No. 4.3e+02;

Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 1623 CGUGGCUAUGCUCUGGC 1641

Db 19 CGUGGCUAUGCUCUGGC 1

RESULT 591

US-10-919-866-191/c

Sequence 191, Application US/10919866

Publication No. US20050176664A1

GENERAL INFORMATION:

APPLICANT: Sigma Therapeutics, Inc.

APPLICANT: Richards, Ivan

APPLICANT: MCSwigen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

TITLE OF INVENTION: Acid (sRNA)

FILE REFERENCE: 400/205 (MEHB04-183-A)

CURRENT APPLICATION NUMBER: US/10/919,866

PRIOR FILING DATE: 2004-08-17

PRIOR APPLICATION NUMBER: US 10/798,090

PRIOR FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: PCT/US04/16390

PRIOR FILING DATE: 2004-05-24

PRIOR APPLICATION NUMBER: US 10/826,966

PRIOR FILING DATE: 2004-04-16

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-11-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 324

SOFTWARE: PatentIn version 3.3

SEQ ID NO 191

LENGTH: 19

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region

US-10-919-866-191

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 4.3e+02;

Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1641 CAACAAACATTCAGAAC 1659

Db 19 CAACAAACATTCAGAAC 1

RESULT 592

US-10-919-866-192/c

Sequence 192, Application US/10919866

Publication No. US20050176664A1

GENERAL INFORMATION:

APPLICANT: Sigma Therapeutics, Inc.

APPLICANT: Richards, Ivan

APPLICANT: MCSwigen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

TITLE OF INVENTION: Acid (sRNA)

FILE REFERENCE: 400/205 (MEHB04-183-A)

CURRENT APPLICATION NUMBER: US/10/919,866

PRIOR FILING DATE: 2004-08-17

PRIOR APPLICATION NUMBER: US 10/798,090

PRIOR FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: PCT/US04/16390

PRIOR FILING DATE: 2004-05-24

PRIOR APPLICATION NUMBER: US 10/826,966

PRIOR FILING DATE: 2004-04-16

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-11-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

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; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 192
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-192

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      1659 CACUUCACAGUCUCUG 1677
Db      19 CACTTCAAGATGCTGCTG 1

RESULT 593
US-10-919-866-193/c
; Sequence 193, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 193
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-193

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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QY      1677 GCUGUGCCAGUGACAA 1695
Db      19 GCTGTCCAGTGTGACAAA 1

RESULT 594
US-10-919-866-194/c
; Sequence 194, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 194
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-194

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1695 AAAAAGAGCCGACAGCAG 1713
Db      19 AAAAAGAGCCGACAGCAG 1

RESULT 595
US-10-919-866-195/c
; Sequence 195, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
```

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; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 195
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-195

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 4.3e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1731 GCAGUACGACGAGACAG 1731
DB      19 GCAGTACGACGAGACAG 1

```

```

RESULT 596
US-10-919-866-196/c
; Sequence 196, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 197
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-197

```

```

; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 196
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-196

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 4.3e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1731 GCGGCAUUTUUCACAG 1749
DB      19 GCGGTCAATTTTCACAG 1

```

```

RESULT 597
US-10-919-866-197/c
; Sequence 197, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 197
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-919-866-197

```

```

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1749 GCGGCAUUTUUCACAG 1767
DB      19 GCGGCAUUTUUCACAG 1

```

```
RESULT 598
US-10-919-866-198/c
; Sequence 198, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBH04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 198
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
US-10-919-866-198

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 4.3e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1753 GCACCCGACGAGCCCTTGT 1771
DB      19  GCACCCGACGAGCCCTTGT 1

RESULT 599
US-11-083-784-96999
; Sequence 96999, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
```

```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96999
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96999

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      306 CAACACUACUUCUCCUUA 324
DB      1  CAACACUACUUCUCCUUA 19

RESULT 600
US-11-083-784-97000
; Sequence 97000, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97000
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97000

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      296 UGAAGACGUCUACAACUA 314
DB      1  UGAAGACGUCUACAACUA 19

RESULT 601
US-11-083-784-97001
; Sequence 97001, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
```



```
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97001
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97001

Query Match
Best Local Similarity 100.0%; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 655 GGAGAGUGCCUUCAUUCAGU 673
Db 1 GGAGAGUGCCUUCAUUCAGU 19

RESULT 602
US-11-083-784-97002
/ Sequence 97002, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97002
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97002

Query Match
Best Local Similarity 100.0%; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 815 GGACAGAGCGCAGACAGCA 833
Db 1 GGACAGAGCGCAGACAGCA 19

RESULT 603
US-11-083-784-97003
/ Sequence 97003, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
```

```
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97003
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97003

Query Match
Best Local Similarity 100.0%; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1439 GGAUGUCCUGGUCAGAA 1457
Db 1 GGAUGUCCUGGUCAGAA 19

RESULT 604
US-11-083-784-97004
/ Sequence 97004, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97004
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97004

Query Match
Best Local Similarity 100.0%; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 GGCAGUACUUGUGGAAA 638
Db 1 GGCAGUACUUGUGGAAA 19

RESULT 605
US-11-083-784-97005
/ Sequence 97005, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
```

```

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97005
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97005
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      546 AAAGAGACCGCGUGAUG 564
Db      1 AAAGAGACCGCGUGAUG 19
```

RESULT 606

```
US-11-083-784-97006
; Sequence 97006, Application US/11083784
; Publication No. US20050245475A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97006
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97006
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      265 GUAAUUGUCACUUAAGG 283
Db      1 GUAAUUGUCACUUAAGG 19
```

RESULT 607

```
US-11-083-784-97007
; Sequence 97007, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97007
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97007
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      254 GCAACAUCCUGGUAUUGU 272
Db      1 GCAACAUCCUGGUAUUGU 19
```

RESULT 608

```
US-11-083-784-97008
; Sequence 97008, Application US/11083784
; Publication No. US20050245475A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97008
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97008
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1653 CAGAACCAUUCUACAAGG 1671
Db      1 CAGAACCAUUCUACAAGG 19
```

RESULT 609

```
US-11-083-784-97009
```

```
; Sequence 97009, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97009
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97009
```

```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1412 CCAGAAGUCAGUACUAA 1430
Db 1 CCAGAAGUCAGUACUAA 19
```

```
RESULT 610
US-11-083-784-97010
; Sequence 97010, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97010
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97010
```

```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1305 GGACACAGUAGACUUCU 1323
Db 1 GGACACAGUAGACUUCU 19
```

```
RESULT 611
US-11-083-784-97011
; Sequence 97011, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97011
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97011
```

```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 656 GAGAGUCUUCAGUCAGU 674
Db 1 GAGAGUCUUCAGUCAGU 19
```

```
RESULT 612
US-11-083-784-97012
; Sequence 97012, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97012
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97012
```

```
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 45 CAUCAGUCUUCUUCGUA 63
```

Db 1 ||||| 1 CAUCAGCUCGCCUGAUA 19

RESULT 613

US-11-083-784-97013
; Sequence 97013, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97013
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97013

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 509 UCACGAGCGCCUCACGUA 527

Db 1 UCACGAGCGCCUCACGUA 19

RESULT 614

US-11-083-784-97014
; Sequence 97014, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97014
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97014

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 204 GGUUCUUCAUUGCUUUCUA 222

Db 1 GGUUCUUCAUUGCUUUCUA 19

RESULT 615

US-11-083-784-97015
; Sequence 97015, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97015
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97015

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1628 GCUAUGCUCUGUCAACAA 1646

Db 1 GCUAUGCUCUGUCAACAA 19

RESULT 616

US-11-083-784-97016
; Sequence 97016, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97016
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97016

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 754 UGAGAGAUUUAUAGAAA 772
|||||

DB 1 UGAGAGAUUUAUAGAAA 19

RESULT 617

US-11-083-784-97017

; Sequence 97017, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Reynolds, Angela

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 97017

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-083-784-97017

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 100.0%; Pred. No. 4.3e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 456 CAUGCCUCUGUUAUGAAU 474
|||||

DB 1 CAUGCCUCUGUUAUGAAU 19

RESULT 618

US-11-083-784-97018

; Sequence 97018, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Reynolds, Angela

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 97018

; LENGTH: 19

; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97018

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 92 CGGAACGUCACUCAUUU 110
|||||

DB 1 CGGAACGUCACUCAUUU 19

RESULT 619

US-11-083-784-97019

; Sequence 97019, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Reynolds, Angela

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 97019

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-083-784-97019

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 100.0%; Pred. No. 4.3e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 129 UGAGAGACUCGCAAUUC 147
|||||

DB 1 UGAGAGACUCGCAAUUC 19

RESULT 620

US-11-083-784-97020

; Sequence 97020, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Reynolds, Angela

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 97020

; LENGTH: 19

```
; SOFTWARE: Proprietary
; SEQ ID NO 97020
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97020

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      579 GGUCACUCUCUUGCCUU 597
DB      1 GGUCACUCUCUUGCCUU 19

RESULT 621
US-11-083-784-97021
; Sequence 97021, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97021
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97021

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      455 GCAUCCUCUCUUGAUA 473
DB      1 GCAUCCUCUCUUGAUA 19

RESULT 622
US-11-083-784-97022
; Sequence 97022, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

```
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97022
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97022

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1723 CAGACAGUCGUCGUAUU 1741
DB      1 CAGACAGUCGUCGUAUU 19

RESULT 623
US-11-083-784-97023
; Sequence 97023, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97023
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97023

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1485 GAUCUCUCUUGCCUUAUC 1503
DB      1 GAUCUCUCUUGCCUUAUC 19

RESULT 624
US-11-083-784-97024
; Sequence 97024, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
```

```
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO: 97024
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97024
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      880 GAACUUCACACGCAAGCA 898
Db      1 GAACUUCACACGCAAGCA 19
```

RESULT 625

```
US-11-083-784-97025
/ Sequence 97025, Application US/11083784
/ Publication No. US20050245475A1
```

GENERAL INFORMATION:

```
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Marshall, William
/ APPLICANT: Leake, Devin
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO: 97025
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97025
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      720 UUAUAGCUCGUCACCAU 738
Db      1 UUAUAGCUCGUCACCAU 19
```

RESULT 626

```
US-11-083-784-97026
/ Sequence 97026, Application US/11083784
/ Publication No. US20050245475A1
```

GENERAL INFORMATION:

```
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
```

```
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO: 97026
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97026
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      530 GAGCAACGACACACAA 548
Db      1 GAGCAACGACACACAA 19
```

RESULT 627

```
US-11-083-784-97027
/ Sequence 97027, Application US/11083784
/ Publication No. US20050245475A1
```

GENERAL INFORMATION:

```
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO: 97027
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97027
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      275 CAUUDAGGUCACACGCA 293
Db      1 CAUUDAGGUCACACGCA 19
```

RESULT 628

```
US-11-083-784-97028
/ Sequence 97028, Application US/11083784
/ Publication No. US20050245475A1
```

GENERAL INFORMATION:

```
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
```

```

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97028
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97028

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 534 CAACGACACACACAGAGA 552
DB 1 CAACGACACACACAGAGA 19

RESULT 629
US-11-083-784-97029
; Sequence 97029, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97029

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1722 GCGAGACAGUCGUCUAU 1740
DB 1 GCGAGACAGUCGUCUAU 19

RESULT 630
US-11-083-784-97030
; Sequence 97030, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
```

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; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97030
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97030

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 971 CCGAGCAGUAGACCAAGA 989
DB 1 CCGAGCAGUAGACCAAGA 19

RESULT 631
US-11-083-784-97031
; Sequence 97031, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97031
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97031

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 665 UCACUACAGUCCUCAGUGA 683
DB 1 UCACUACAGUCCUCAGUGA 19

RESULT 632
US-11-083-784-97032
; Sequence 97032, Application US/11083784
; Publication No. US20050245475A1
```



```
/ GENERAL INFORMATION:
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97032
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97032
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      532 GCCAAGCAACAACAAGA 550
Db      1 GCCAAGCAACAACAAGA 19
```

```
RESULT 633
US-11-083-784-97033
/ Sequence 97033, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmcon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97033
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97033
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      453 CAGCAAGCCUCUGUAUG 471
Db      1 CAGCAAGCCUCUGUAUG 19
```

RESULT 634

```
US-11-083-784-97034
/ Sequence 97034, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmcon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97034
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97034
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      253 GGCACAUCCUGUAUUG 271
Db      1 GGCACAUCCUGUAUUG 19
```

```
RESULT 635
US-11-083-784-97035
/ Sequence 97035, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmcon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97035
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97035
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1419 UCAGAUCAUACGCGAAA 1437
Db      1 UCAGAUCAUACGCGAAA 19
```

```
RESULT 636
US-11-083-784-97036
; Sequence 97036, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97036
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97036

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1233 GAAGAGCGUGACGACGAUGCA 1251
Db      1 GAAGAGCGUGACGACGAUGCA 19

RESULT 637
US-11-083-784-97037
; Sequence 97037, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97037
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97037

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1233 GAAGAGCGUGACGACGAUGCA 1251
Db      1 GAAGAGCGUGACGACGAUGCA 19
```

```
Qy      525 GUACGAGCCAAACGACA 543
Db      1 GUACGAGCCAAACGACA 19

RESULT 638
US-11-083-784-97038
; Sequence 97038, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97038
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97038

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      876 UUAAGAACTUCACACGCAA 894
Db      1 UUAAGAACTUCACACGCAA 19

RESULT 639
US-11-083-784-97039
; Sequence 97039, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97039
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97039

Query Match      1.1%; Score 19; DB 1; Length 19;
```

Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 758 GGAUUCUUAAGAAAGAACTGA 776
|||||
Db 1 GGAUCUUAAGAAAGAACTGA 19

RESULT 640

US-11-083-784-97040
; Sequence 97040, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97040
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97040

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CUUCAUCCGCUUUCUUAACG 225
|||||
Db 1 CUUCAUCCGCUUUCUUAACG 19

RESULT 641

US-11-083-784-97041
; Sequence 97041, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97041
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens

US-11-083-784-97041

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 677 UCAGUGAGCCACCAUUAAC 695
|||||
Db 1 UCAGUGAGCCACCAUUAAC 19

RESULT 642

US-11-083-784-97042
; Sequence 97042, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97042
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97042

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 483 CAUCAGCUUUGACAGAUAC 501
|||||
Db 1 CAUCAGCUUUGACAGAUAC 19

RESULT 643

US-11-083-784-97043
; Sequence 97043, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97043

LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97043

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1655 GAAACCACTUUCAGAGUGCU 1673
|||||
DB 1 GAAACCACTUUCAGAGUGCU 19

RESULT 644
US-11-083-784-97044
Sequence 97044, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97044
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97044

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 988 GACCAAGCAGCAGUGACA 1006
|||||
DB 1 GACCAAGCAGCAGUGACA 19

RESULT 645
US-11-083-784-97045
Sequence 97045, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97045
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97045

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 454 AGCAAGCCUCUGUUAUGA 472
|||||
DB 1 AGCAAGCCUCUGUUAUGA 19

RESULT 646
US-11-083-784-97046
Sequence 97046, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97046
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97046

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 407 UAGGAACTUGGCTUGUA 425
|||||
DB 1 UAGGAACTUGGCTUGUA 19

RESULT 647
US-11-083-784-97047
Sequence 97047, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97047
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97047
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      365 UGAACUGUUUACGACCUA 383
Db      1 UGAACUGUUUACGACCUA 19
```

RESULT 648

```
US-11-083-784-97048
; Sequence 97048, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97048
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97048
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1410 GACGAGAAUCGACUACU 1428
Db      1 GACGAGAAUCGACUACU 19
```

RESULT 649

```
US-11-083-784-97049
; Sequence 97049, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
```

```
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97049
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97049
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1139 CCACCAAGUACCCUACU 1157
Db      1 CCACCAAGUACCCUACU 19
```

RESULT 650

```
US-11-083-784-97050
; Sequence 97050, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97050
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97050
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1082 CGAGAGCAUCCUACU 1100
Db      1 CGAGAGCAUCCUACU 19
```

RESULT 651

```
US-11-083-784-97051
; Sequence 97051, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```
FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97051
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97051

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      307 AACACUACUCCUCCUUA 325
DB      1 AACACUACUCCUCCUUA 19

RESULT 652
US-11-083-784-97052
; Sequence 97052, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97052
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97052

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      261 CCUGGUAUUGUGUCAUU 279
DB      1 CCUGGUAUUGUGUCAUU 19

RESULT 653
US-11-083-784-97053
; Sequence 97053, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

```
APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97053
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97053

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1586 GCUACUGGCGUGCUACAU 1604
DB      1 GCUACUGGCGUGCUACAU 19

RESULT 654
US-11-083-784-97054
; Sequence 97054, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97054
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97054

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      482 UCAUCAGCUGUGACGAUA 500
DB      1 UCAUCAGCUGUGACGAUA 19

RESULT 655
US-11-083-784-97055
; Sequence 97055, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
```

```

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97055
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97055
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1307 ACACAGCUNAGACUUCUGA 1325

Db 1 ACACAGCUNAGACUUCUGA 19

RESULT 656
US-11-083-784-97056

```

; Sequence 97056, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97056
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97056
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 544 ACAAGAGAGCCGCGUGUGA 562

Db 1 ACAAGAGAGCCGCGUGUGA 19

RESULT 657

US-11-083-784-97057
; Sequence 97057, Application US/11083784

```

; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97057
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97057
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 361 UCAUGAUCUGUUUACGA 379

Db 1 UCAUGAUCUGUUUACGA 19

RESULT 658

```

US-11-083-784-97058
; Sequence 97058, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97058
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97058
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1517 CAUACAUCUAGUUUCU 1535

Db 1 CAUACAUCUAGUUUCU 19

RESULT 659
US-11-083-784-97059
; Sequence 97059, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97059
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97059

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1489 UUGCUCGCUUACUACA 1507
|||||
DB 1 UUGCUCGCUUACUACA 19

RESULT 660
US-11-083-784-97060
; Sequence 97060, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97060
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97060

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 721 UUAUGCCUGUACCAUUA 739
|||||

DB 1 UUAUGCCUGUACCAUUA 19

RESULT 661
US-11-083-784-97061
; Sequence 97061, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97061
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97061

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 549 GAGAGCCGUGUGAUGAUC 567
|||||
DB 1 GAGAGCCGUGUGAUGAUC 19

RESULT 662
US-11-083-784-97062
; Sequence 97062, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97062
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97062

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 486 CAGCUUGACAGUACUU 504
|||
Db 1 CAGCUUGACAGUACUU 19

RESULT 663

US-11-083-784-97063
; Sequence 97063, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97063
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97063

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1652 UCAGAACCCACUUCAGAU 1670
|||
Db 1 UCAGAACCCACUUCAGAU 19

RESULT 664

US-11-083-784-97064
; Sequence 97064, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97064
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97064

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1646 AACCAUUCAGACCACUU 1664
|||
Db 1 AACCAUUCAGACCACUU 19

RESULT 665

US-11-083-784-97065
; Sequence 97065, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97065
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97065

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1314 UAGACUUCGACGUCAC 1332
|||
Db 1 UAGACUUCGACGUCAC 19

RESULT 666

US-11-083-784-97066
; Sequence 97066, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97066
; LENGTH: 19
; TYPE: RNA
US-11-083-784-97066

; ORGANISM: Homo sapiens
US-11-083-784-97066

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 998 GCAGUGACAGUGGACAA 1016
DB 1 GCAGUGACAGUGGACAA 19

RESULT 667

US-11-083-784-97067
; Sequence 97067, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97067
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97067

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 255 CAACAUCUCGUAUUGUG 273
DB 1 CAACAUCUCGUAUUGUG 19

RESULT 668

US-11-083-784-97068
; Sequence 97068, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary

; SEQ ID NO 97068
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97068

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 330 GGCUGUGCCGUAUUGU 348
DB 1 GGCUGUGCCGUAUUGU 19

RESULT 669

US-11-083-784-97069
; Sequence 97069, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97069
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97069

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 619 UGGCAUACUUGUGGAA 637
DB 1 UGGCAUACUUGUGGAA 19

RESULT 670

US-11-083-784-97070
; Sequence 97070, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137

```
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97070
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97070

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 101 UCACUCUUCUGCGCAGCUA 119
DB 1 UCACUCUUCUGCGCAGCUA 19

RESULT 671
US-11-083-784-97071
/ Sequence 97071, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR FILING DATE: 2002-11-14
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97071
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97071

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 886 CAACAGCAAGCAUGGAAC 904
DB 1 CAACAGCAAGCAUGGAAC 19

RESULT 672
US-11-083-784-97072
/ Sequence 97072, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
```

```
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97072
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97072

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 756 GAGGAGUCUUAAGGAACU 774
DB 1 GAGGAGUCUUAAGGAACU 19

RESULT 673
US-11-083-784-97073
/ Sequence 97073, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR FILING DATE: 2002-11-14
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97073
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97073

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 752 ACUGAGAGUCUUAAGGA 770
DB 1 ACUGAGAGUCUUAAGGA 19

RESULT 674
US-11-083-784-97074
/ Sequence 97074, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
```

```

; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97074
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97074

Query Match
1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 572 UGGCTUGGUGCAUCCUCCU 590
Db 1 UGGCTUGGUGCAUCCUCCU 19

RESULT 675
US-11-083-784-97075
; Sequence 97075, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97075
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97075

Query Match
1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 297 GAAGACGGUCAACACUAC 315
Db 1 GAAGACGGUCAACACUAC 19

RESULT 676
US-11-083-784-97076
; Sequence 97076, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97076
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97076

Query Match
1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1754 CACCGAGCGGCGCCUGUA 1772
Db 1 CACCGAGCGGCGCCUGUA 19

RESULT 677
US-11-083-784-97077
; Sequence 97077, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97077
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97077

Query Match
1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1551 UGACGAGUCGCAUCCCAA 1569
Db 1 UGACGAGUCGCAUCCCAA 19

RESULT 678
US-11-083-784-97078
; Sequence 97078, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97078
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97078
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      308 ACAACUACUCCUUAAG 326
      |||||
Db      1 ACAACUACUCCUUAAG 19
```

```

RESULT 679
US-11-083-784-97079
; Sequence 97079, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97079
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97079
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      109 UUCGCGACUACAUGUU 127
      |||||
Db      1 UUCGCGACUACAUGUU 19
```

```

RESULT 680
US-11-083-784-97080
; Sequence 97080, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97080
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97080
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1473 GACCCUACUGGCAUCUG 1491
      |||||
Db      1 GACCCUACUGGCAUCUG 19
```

```

RESULT 681
US-11-083-784-97081
; Sequence 97081, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97081
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97081
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      451 GCCAGCAUGCCUUGUA 469
      |||||
Db      1 GCCAGCAUGCCUUGUA 19
```

```

RESULT 682
US-11-083-784-97082
```

```
; Sequence 97082, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97082
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97082
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1203 GGAGAGGAAGCCGACAG 1221
Db      1 GGAGAGGAAGCCGACAG 19
```

```
RESULT 683
US-11-083-784-97083
; Sequence 97083, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97083
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97083
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      896 GCAUGAAAGCUCGACAG 914
Db      1 GCAUGAAAGCUCGACAG 19
```

```
RESULT 684
US-11-083-784-97084
; Sequence 97084, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97084
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97084
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      816 GACAGAGCGACAGACGAA 834
Db      1 GACAGAGCGACAGACGAA 19
```

```
RESULT 685
US-11-083-784-97085
; Sequence 97085, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97085
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97085
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      432 GCUUGCAUUGACUACGUA 450
```

Db 1 GCUUGCCAUUGACUACGUA 19

RESULT 686

US-11-083-784-97086
; Sequence 97086, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97086
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97086

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 23 CAACUUGCCUUGUUUCC 41
Db 1 CAACUUGCCUUGUUUCC 19

RESULT 687

US-11-083-784-97087
; Sequence 97087, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97087
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97087

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1537 GUGAACCCUUGUACCA 1555
Db 1 GUGAACCCUUGUACCA 19

RESULT 688

US-11-083-784-97088
; Sequence 97088, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97088
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97088

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1271 UCUCACGCUUCCAUCCA 1289
Db 1 UCUCACGCUUCCAUCCA 19

RESULT 689

US-11-083-784-97089
; Sequence 97089, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97089
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97089

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 680 GUGAGCCGACCAUUCUU 698
|||||
Db 1 GUGAGCCGACCAUUCUU 19

RESULT 690
US-11-083-784-97090
; Sequence 97090, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97090
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97090

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 373 UUUACGACCUCAUCAUCA 391
|||||
Db 1 UUUACGACCUCAUCAUCA 19

RESULT 691
US-11-083-784-97091
; Sequence 97091, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97091
; LENGTH: 19

; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97091

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 759 GAUCUUAUAGAAACUGAA 777
|||||
Db 1 GAUCUUAUAGAAACUGAA 19

RESULT 692
US-11-083-784-97092
; Sequence 97092, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97092
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97092

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 262 CUGGUAUUGUGUCAUUUA 280
|||||
Db 1 CUGGUAUUGUGUCAUUUA 19

RESULT 693
US-11-083-784-97093
; Sequence 97093, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911


```
/ SOFTWARE: Proprietary
/ SEQ ID NO 97093
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97093
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      249 CAUCGGCAACAUCCUGGUA 267
Db      1 CAUCGGCAACAUCCUGGUA 19
```

```
RESULT 694
US-11-083-784-97094
/ Sequence 97094, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR FILING DATE: 2002-11-14
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97094
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97094
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      493 GACAGUACUUNUCCAUCA 511
Db      1 GACAGUACUUNUCCAUCA 19
```

```
RESULT 695
US-11-083-784-97095
/ Sequence 97095, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR FILING DATE: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
```

```
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97095
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97095
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      452 CCAGCAUCCUCUCGUUAU 470
Db      1 CCAGCAUCCUCUCGUUAU 19
```

```
RESULT 696
US-11-083-784-97096
/ Sequence 97096, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR FILING DATE: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR FILING DATE: 2002-11-14
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97096
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-97096
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1407 GAAGACCAGAGUCAGAU 1425
Db      1 GAAGACCAGAGUCAGAU 19
```

```
RESULT 697
US-11-083-784-97097
/ Sequence 97097, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
```

```
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 97097
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97097
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      91 CCGGGAACCGUCACUCACU 109
Db      1 CCGGGAACCGUCACUCACU 19
```

RESULT 698

```
US-11-083-784-97098
; Sequence 97098, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 97098
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97098
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      284 UCAACAAGCAGCUGAAGAC 302
Db      1 UCAACAAGCAGCUGAAGAC 19
```

RESULT 699

```
US-11-101-244-96999
; Sequence 96999, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

```
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 96999
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96999
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      306 CAACAACUACUCCUCUUA 324
Db      1 CAACAACUACUCCUCUUA 19
```

RESULT 700

```
US-11-101-244-97000
; Sequence 97000, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 97000
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97000
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      296 UGAAGACGUGCAACACUA 314
Db      1 UGAAGACGUGCAACACUA 19
```

RESULT 701

```
US-11-101-244-97001
; Sequence 97001, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

```

1  CURRENT FILING DATE: 2005-04-07
2  PRIOR APPLICATION NUMBER: 60/502,050
3  PRIOR FILING DATE: 2003-09-10
4  PRIOR APPLICATION NUMBER: 60/426,137
5  PRIOR FILING DATE: 2002-11-14
6  NUMBER OF SEQ ID NOS: 1591911
7  SOFTWARE: Propietary
8  SEQ ID NO: 97001
9  LENGTH: 19
10  TYPE: RNA
11  ORGANISM: Homo sapiens
12  US-11-101-244-97001

```

Query Match	1.1%;	Score 19;	DB 1;	Length 19;
Best Local Similarity	100.0%;	Pred. No. 4.3e+02;		
Matches	19;	Conservative	0;	Mismatches 0;
			Indels	0;
			Gaps	0;

QY 655 GGAGAGUGCUUCAUUCAGU 673
|||
Db 1 GGAGAGUGCUUCAUUCAGU 19

RESULT 702
US-11-101-244-97002
; Sequence 97002, Application US/11101244
; Publication No. US20050246794A1

```

APPLICANT: Pharmakon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97002
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97002

```

	Query Match	Similarity	1.1%	Score	19;	DB	1;	Length	19;	
	Best Local	Similarity	100.0%	Pred.	No.	4.3e+07;				
	Matches	19;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
OY		815	GGACGAGCGCACGACGACA		833					
bD		1	GGACGAGCGCACGACGACA		19					

```

RESULT 703
US-11-101-244-97003
: Sequence 97003, Application US/11101244
: Publication No. US20050246794A1
: GENERAL INFORMATION:
: APPLICANT: Pharmacon, Inc.
: APPLICANT: Khavrova, Anastasia
: APPLICANT: Reynolds, Angela
: APPLICANT: Leake, Devin
: APPLICANT: Marshall, William
: APPLICANT: Scaringe, Stephen
: TITLE OF INVENTION: Functional and Hyperfunctional siRNA
: FILE REFERENCE: 1499US
: CURRENT APPLICATION NUMBER: US/11/101,244
: CURRENT FILING DATE: 2005-04-07

```

```

? PRIOR APPLICATION NUMBER: 60/502,050
? PRIOR FILING DATE: 2003-09-10
? PRIOR APPLICATION NUMBER: 60/426,137
? PRIOR FILING DATE: 2002-11-14
? NUMBER OF SEQ ID NOS: 1591911
? SOFTWARE: Proprietary
? SEQ ID NO 97003
? LENGTH: 19
? TYPE: RNA
? ORGANISM: Homo sapiens
? US-11-101-244-97003

```

Query Match	1.1%;	Score 19;	DB 1;	Length 19;
Best Local Similarity	100.0%;	Pred. No. 4.3e+02;		
Matches 19;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 1439 GGAUGUCCCTUGGUC AAGGA 1457
|||
Db 1 GGAUGUCCCTUGGUC AAGGA 19

RESULT 704
US-11-101-244-97004
; Sequence 97004, Application US/11101244
; Publication No. US20050246794A1

```

APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97004
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
IS-11-101-244-97004

```

Query Match	1.1%	Score 19	DB 1	Length 19
Best Local Similarity	100.0%	Pred. No. 4	3e+02	
Matches 19	Conservative 0	Mismatches 0	Indels 0	Gaps 0
OY	620	GGCAUACUUGUGGAAA	638	
Db	1	GGCAUACUUGUGGAAA	19	

```

RESULT: 705
US-11-101-244-97005
/ Sequence 97005, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050

```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97005
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97005

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 546 AAAGAGAGCGGUGUGAUG 564
DB 1 AAAGAGAGCGGUGUGAUG 19

RESULT 706
US-11-101-244-97006
; Sequence 97006, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97006
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97006

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 265 GUAAUUGUGUCAUUUAAGG 283
DB 1 GUAAUUGUGUCAUUUAAGG 19

RESULT 707
US-11-101-244-97007
; Sequence 97007, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

```
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97007
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97007

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 254 GCAACAUCCUGGUUAUUGU 272
DB 1 GCAACAUCCUGGUUAUUGU 19

RESULT 708
US-11-101-244-97008
; Sequence 97008, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97008
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97008

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1653 CAGAACCAUUCUACAAGU 1671
DB 1 CAGAACCAUUCUACAAGU 19

RESULT 709
US-11-101-244-97009
; Sequence 97009, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
```

;; PRIOR FILING DATE: 2002-11-14
;; NUMBER OF SEQ ID NOS: 1591911
;; SOFTWARE: Proprietary
;; SEQ ID NO 97009
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Homo sapiens
US-11-101-244-97009

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1412 CCAGAGUCAGACUCAA 1430
Db 1 CCAGAGUCAGACUCAA 19

RESULT 710

US-11-101-244-97010
; Sequence 97010, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97010
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97010

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1305 GGACACAGCUGACUUCU 1323
Db 1 GGACACAGCUGACUUCU 19

RESULT 711

US-11-101-244-97011
; Sequence 97011, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14

;; NUMBER OF SEQ ID NOS: 1591911
;; SOFTWARE: Proprietary
;; SEQ ID NO 97011
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Homo sapiens
US-11-101-244-97011

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 656 GAGAGUGUCUUAUUCAGU 674
Db 1 GAGAGUGUCUUAUUCAGU 19

RESULT 712

US-11-101-244-97012
; Sequence 97012, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97012
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97012

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 45 CAUACAGCUCUCCUGAUA 63
Db 1 CAUACAGCUCUCCUGAUA 19

RESULT 713

US-11-101-244-97013
; Sequence 97013, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

```
; SOFTWARE: Proprietary
; SEQ ID NO 97013
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97013
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy          509 UCACGAGCGCCGUCACGUA 527
Db          1 UCACGAGCGCCGUCACGUA 19
```

```
RESULT 714
US-11-101-244-97014
; Sequence 97014, Application US//11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US//11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97014
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97014
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy          204 GGUUCUUCATGCGCUUCUUA 222
Db          1 GGUUCUUCATGCGCUUCUUA 19
```

```
RESULT 715
US-11-101-244-97015
; Sequence 97015, Application US//11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US//11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
```

```
; SEQ ID NO 97015
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97015
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy          1628 GCUAUGCUCUGUCACAA 1646
Db          1 GCUAUGCUCUGUCACAA 19
```

```
RESULT 716
US-11-101-244-97016
; Sequence 97016, Application US//11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US//11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97016
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97016
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy          754 UGGAGAGUUCUUAAGCAA 772
Db          1 UGGAGAGUUCUUAAGCAA 19
```

```
RESULT 717
US-11-101-244-97017
; Sequence 97017, Application US//11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US//11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97017
```

LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97017

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

456 CAUGCCUCGUAUGAAU 474
1 CAUGCCUCGUAUGAAU 19

RESULT 718
US-11-101-244-97018
Sequence 97018, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97018
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97018

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

92 CGGAACGCGACUACUU 110
1 CGGAACGCGACUACUU 19

RESULT 719
US-11-101-244-97019
Sequence 97019, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97019
LENGTH: 19

TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97019

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

129 UCGAGCAGCGGCAUUC 147
1 UCGAGCAGCGGCAUUC 19

RESULT 720
US-11-101-244-97020
Sequence 97020, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97020
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97020

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 19;
Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

579 GGUCACUCCUUGUCCUU 597
1 GGUCACUCCUUGUCCUU 19

RESULT 721
US-11-101-244-97021
Sequence 97021, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97021
LENGTH: 19
TYPE: RNA

ORGANISM: Homo sapiens
US-11-101-244-97021

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 455 GCAUGCCUCUGUAVGAA 473
|||||
Db 1 GCAUGCCUCUGUAVGAA 19

RESULT 722

US-11-101-244-97022
Sequence 97022, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

CURRENT FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97022

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97022

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1723 CAGAGCAGUCGUCACUUY 1741
|||||
Db 1 CAGAGCAGUCGUCACUUY 19

RESULT 723

US-11-101-244-97023
Sequence 97023, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

CURRENT FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97023

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97023

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1485 GAUCUCGUCGCUCAUC 1503
|||||
Db 1 GAUCUCGUCGCUCAUC 19

RESULT 724

US-11-101-244-97024
Sequence 97024, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

CURRENT FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97024

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97024

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 880 GAUCUCACAGCAAGCA 898
|||||
Db 1 GAUCUCACAGCAAGCA 19

RESULT 725

US-11-101-244-97025
Sequence 97025, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

CURRENT FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97025

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97025

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 720 UUAUAGCCUGUCCACCAU 738
|||||
DB 1 UUAUAGCCUGUCCACCAU 19

RESULT 726

US-11-101-244-97026
; Sequence 97026, Application US/11101244
; Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97026

LENGTH: 19
TYPE: RNA

ORGANISM: Homo sapiens
US-11-101-244-97026

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 530 GAGCCAAACGAACAACAA 548
|||||
DB 1 GAGCCAAACGAACAACAA 19

RESULT 727

US-11-101-244-97027
; Sequence 97027, Application US/11101244
; Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97027

LENGTH: 19
TYPE: RNA

ORGANISM: Homo sapiens
US-11-101-244-97027

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 275 CAUUAAGGUCACCAAGCA 293
|||||
DB 1 CAUUAAGGUCACCAAGCA 19

RESULT 728

US-11-101-244-97028
; Sequence 97028, Application US/11101244
; Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97028

LENGTH: 19
TYPE: RNA

ORGANISM: Homo sapiens
US-11-101-244-97028

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 534 CAACGACACCAACAGCA 552
|||||
DB 1 CAACGACACCAACAGCA 19

RESULT 729

US-11-101-244-97029
; Sequence 97029, Application US/11101244
; Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97029

LENGTH: 19
TYPE: RNA

ORGANISM: Homo sapiens
US-11-101-244-97029

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1722 GCAGAGACAGCGGUCAUU 1740
Db 1 GCAGAGACAGCGGUCAUU 19

RESULT 730

US-11-101-244-97030
; Sequence 97030, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97030
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97030

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 971 CCGAGCAGAUAGCACAAGA 989
Db 1 CCGAGCAGAUAGCACAAGA 19

RESULT 731

US-11-101-244-97031
; Sequence 97031, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97031
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97031

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 665 UCAUUCAGUUCUCCAGUGCA 683
Db 1 UCAUUCAGUUCUCCAGUGA 19

RESULT 732

US-11-101-244-97032
; Sequence 97032, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97032
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97032

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 532 GCCAAACGAAACAACAAGA 550
Db 1 GCCAAACGAAACAACAAGA 19

RESULT 733

US-11-101-244-97033
; Sequence 97033, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97033
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97033

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 453 CAGCAUGCCUCGUUAUG 471
|||||
Db 1 CAGCAUGCCUCGUUAUG 19

RESULT 734
US-11-101-244-97034
; Sequence 97034, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97034
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97034

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;
Qy 253 GCGAACAUCCUGUAUUG 271
|||||
Db 1 GCGAACAUCCUGUAUUG 19

RESULT 735
US-11-101-244-97035
; Sequence 97035, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97035
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97035

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;

Qy 1419 UCAGAUCAUCUAGCGGAAA 1437
|||||
Db 1 UCAGAUCAUCUAGCGGAAA 19

RESULT 736
US-11-101-244-97036
; Sequence 97036, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97036
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97036

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;
Qy 1233 GAAAGCGUGGACGAUGGA 1251
|||||
Db 1 GAAAGCGUGGACGAUGGA 19

RESULT 737
US-11-101-244-97037
; Sequence 97037, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97037
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97037

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;
Qy 525 GUACGAGCCAAAGACA 543

Db 1 GUAACGACCAACGACA 19

```
RESULT 738
US-11-101-244-97038
; Sequence 97038, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97038
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97038
```

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 876 UUACGAACUUAAGAAACGAA 894
Db 1 UUAACGAACUUAACGACGAA 19

```
RESULT 739
US-11-101-244-97039
; Sequence 97039, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97039
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97039
```

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 758 GGAUUCUUAAGAAGAAACUGA 776
Db 1 GGAUUCUUAAGAAGAAACUGA 776

Db 1 GGAUUCUUAAGAAGAAACUGA 19

```
RESULT 740
US-11-101-244-97040
; Sequence 97040, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97040
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97040
```

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CUUACAUCCGCUUUCUUAACG 225
Db 1 CUUACAUCCGCUUUCUUAACG 19

```
RESULT 741
US-11-101-244-97041
; Sequence 97041, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97041
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97041
```

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 677 UCAGUGAGCCCAACCAUAC 695
Db 1 UCAGUGAGCCCAACCAUAC 19

RESULT 742

US-11-101-244-97042
; Sequence 97042, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97042
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97042

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 483 CAUCAGCCTTUGACAGUAC 501

Db 1 CAUCAGCCTTUGACAGUAC 19

RESULT 743

US-11-101-244-97043
; Sequence 97043, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97043
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97043

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1655 GAACCACTTUCAGAGUCU 1673

Db 1 GAACCACTTUCAGAGUCU 19

RESULT 744

US-11-101-244-97044
; Sequence 97044, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97044
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97044

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 988 GACCAAGCAGCAGUGACA 1006

Db 1 GACCAAGCAGCAGUGACA 19

RESULT 745

US-11-101-244-97045
; Sequence 97045, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97045
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97045

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 454 AGCAAGCCTCUGUAUGA 472

Db 1 AGCAAGCCTCUGUAUGA 19

RESULT 746

```
US-11-101-244-97046
; Sequence 97046, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97046
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97046
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 407 UAGGAGACTUGGCTTUGCA 425

Db 1 UAGGAGACTUGGCTTUGCA 19

RESULT 747

```
US-11-101-244-97047
; Sequence 97047, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97047
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97047
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 365 UGAUCUUTUUUGACCUA 383

Db 1 UGAUCUUTUUUGACCUA 19

RESULT 748

US-11-101-244-97048

```
; Sequence 97048, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97048
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97048
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1410 GACCAAGAGUCAGUACU 1428

Db 1 GACCAAGAGUCAGUACU 19

RESULT 749

```
US-11-101-244-97049
; Sequence 97049, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97049
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97049
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1139 CCACCAAGUACCUCAUC 1157

Db 1 CCACCAAGUACCUCAUC 19

RESULT 750

US-11-101-244-97050

```
; Sequence 97050, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97050
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97050

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1082 CGAGAGCCCAUCCUCCAU 1100
Db      1 CGAGAGCCCAUCCUCCAU 19

RESULT 751
US-11-101-244-97051
; Sequence 97051, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97051
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97051

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      307 AACACUACUCCUCCUUA 325
Db      1 AACACUACUCCUCCUUA 19
```

```
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97052
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97052

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      261 CCUGGUAUUGUGUCAUU 279
Db      1 CCUGGUAUUGUGUCAUU 19

RESULT 753
US-11-101-244-97053
; Sequence 97053, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97053
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97053

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1586 GCUACUGGUGUGUCAUU 1604
Db      1 GCUACUGGUGUGUCAUU 19

RESULT 754
US-11-101-244-97054
; Sequence 97054, Application US/11101244
; Publication No. US20050246794A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97054
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97054

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      482 UCAUCAGCUCUUGACAGAU 500
DB      1 UCAUCAGCUCUUGACAGAU 19

RESULT 755
US-11-101-244-97055
; Sequence 97055, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97055
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97055

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1307 ACACAGCUGAAGACUCUCUGA 1325
DB      1 ACACAGCUGAAGACUCUCUGA 19

RESULT 756
US-11-101-244-97056
; Sequence 97056, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97056
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97056

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      544 ACAAGAGAGCCGCGUCUGA 562
DB      1 ACAAGAGAGCCGCGUCUGA 19

RESULT 757
US-11-101-244-97057
; Sequence 97057, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97057
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97057

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      361 UCAUGAUAUCUGUUGCGA 379
DB      1 UCAUGAUAUCUGUUGCGA 19

RESULT 758
US-11-101-244-97058
; Sequence 97058, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```



```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97058
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97058

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1517 CAUACACACUACUGGUCU 1535
Db 1 CAUACACACUACUGGUCU 19

RESULT 759
US-11-101-244-97059
; Sequence 97059, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97059
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97059

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1489 UUGCUGCCUUCACUACUCA 1507
Db 1 UUGCUGCCUUCACUACUCA 19

RESULT 760
US-11-101-244-97060
; Sequence 97060, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97060
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97060

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 721 UAUAGCCUGUCACCAUUA 739
Db 1 UAUAGCCUGUCACCAUUA 19

RESULT 761
US-11-101-244-97061
; Sequence 97061, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97061
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97061

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 549 GAGAGCCGGUGUGAUGAUC 567
Db 1 GAGAGCCGGUGUGAUGAUC 19

RESULT 762
US-11-101-244-97062
; Sequence 97062, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97062
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97062
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      486 CAGCUUUGACAGUACUUU 504
DB      1 CAGCUUUGACAGUACUUU 19
```

RESULT 763

```
US-11-101-244-97063
; Sequence 97063, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97063
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97063
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1652 UCAGAACGACUUUCAAGAU 1670
DB      1 UCAGAACGACUUUCAAGAU 19
```

RESULT 764

```
US-11-101-244-97064
; Sequence 97064, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

```

; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97064
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97064
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1646 AAACAUCUGAACCAACUUU 1664
DB      1 AAACAUCUGAACCAACUUU 19
```

RESULT 765

```
US-11-101-244-97065
; Sequence 97065, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97065
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97065
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1314 UAGACUUCUGACGUCAC 1332
DB      1 UAGACUUCUGACGUCAC 19
```

RESULT 766

```
US-11-101-244-97066
; Sequence 97066, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

```
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97066
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97066

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      998 GCAGUGACAGUGGACAA 1016
Db      1 GCAGUGACAGUGGACAA 19
```

```
RESULT 767
US-11-101-244-97067
; Sequence 97067, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97067
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97067
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      255 CAACAUCCTUGGUAUUG 273
Db      1 CAACAUCCTUGGUAUUG 19
```

```
RESULT 768
US-11-101-244-97068
; Sequence 97068, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97068
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97068

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      330 GGCCUGGCGGATCGUAU 348
Db      1 GGCCUGGCGGATCGUAU 19
```

```
RESULT 769
US-11-101-244-97069
; Sequence 97069, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97069
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97069
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      619 UGGCAUACUUGUGGAA 637
Db      1 UGGCAUACUUGUGGAA 19
```

```
RESULT 770
US-11-101-244-97070
; Sequence 97070, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97070
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97070

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      101 UCACUCACUUCGCGACGCUA 119
Db      1 UCACUCACUUCGCGACGCUA 19

RESULT 771
US-11-101-244-97071
; Sequence 97071, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97071
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97071

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      886 CAACGACAAAGCAUGAAAC 904
Db      1 CAACGACAAAGCAUGAAAC 19

RESULT 772
US-11-101-244-97072
; Sequence 97072, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

```
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97072
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97072

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      756 GAGGAUCUUAAGGAACU 774
Db      1 GAGGAUCUUAAGGAACU 19

RESULT 773
US-11-101-244-97073
; Sequence 97073, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97073
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97073

Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      752 ACUGAGAUUUAAGGA 770
Db      1 ACUGAGAUUUAAGGA 19

RESULT 774
US-11-101-244-97074
; Sequence 97074, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
```

```
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97074
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-97074
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      572 UGGCTUGGUGCAUCCUCCU 590
DB      1 UGGCTUGGUGCAUCCUCCU 19
```

```
RESULT 775
US-11-101-244-97075
/ Sequence 97075, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmcon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97075
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-97075
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      297 GAAGACGGUACACACUAC 315
DB      1 GAAGACGGUACACACUAC 19
```

```
RESULT 776
US-11-101-244-97076
/ Sequence 97076, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmcon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
```

```
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97076
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-97076
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1754 CACCCGAGCAGGCCUUGUA 1772
DB      1 CACCCGAGCAGGCCUUGUA 19
```

```
RESULT 777
US-11-101-244-97077
/ Sequence 97077, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmcon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97077
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-97077
```

```
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1551 UGACAGCTGCANUCCCAA 1569
DB      1 UGACAGCTGCANUCCCAA 19
```

```
RESULT 778
US-11-101-244-97078
/ Sequence 97078, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmcon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
```

```

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97078
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97078
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      308 ACAACUACUCCUCCUUAAG 326
DB      1 ACAACUACUCCUCCUUAAG 19
```

RESULT 779

```
US-11-101-244-97079
; Sequence 97079, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Reynolds, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97079
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97079
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      109 UUCGGCAGCUCACAUUGUU 127
DB      1 UUCGGCAGCUCACAUUGUU 19
```

RESULT 780

```
US-11-101-244-97080
; Sequence 97080, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Reynolds, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

```

; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97080
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97080
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1473 GACCCUACAGGCGAUCUG 1491
DB      1 GACCCUACAGGCGAUCUG 19
```

RESULT 781

```
US-11-101-244-97081
; Sequence 97081, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Reynolds, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97081
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97081
```

```

Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      451 GCCAGCAAGCCUCUGUN 469
DB      1 GCCAGCAAGCCUCUGUN 19
```

RESULT 782

```
US-11-101-244-97082
; Sequence 97082, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Reynolds, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
```

;; PRIOR FILING DATE: 2002-11-14
;; NUMBER OF SEQ ID NOS: 1591911
;; SOFTWARE: Proprietary
;; SEQ ID NO: 97082
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Homo sapiens
US-11-101-244-97082

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1203 GGAGAGAAAGCCGACAAAG 1221
DB 1 GGAGAGAAAGCCGACAAAG 19

RESULT 783
US-11-101-244-97083
; Sequence 97083, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 97083
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97083

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 896 GCAUGAAGCGUCGACAAAG 914
DB 1 GCAUGAAGCGUCGACAAAG 19

RESULT 784
US-11-101-244-97084
; Sequence 97084, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14

;; NUMBER OF SEQ ID NOS: 1591911
;; SOFTWARE: Proprietary
;; SEQ ID NO: 97084
;; LENGTH: 19
;; TYPE: RNA
;; ORGANISM: Homo sapiens
US-11-101-244-97084

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 816 GACAGAGCGAGACAGAA 834
DB 1 GACAGAGCGAGACAGAA 19

RESULT 785
US-11-101-244-97085
; Sequence 97085, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 97085
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97085

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 432 GCUGGCAUGGACUACGUA 450
DB 1 GCUGGCAUGGACUACGUA 19

RESULT 786
US-11-101-244-97086
; Sequence 97086, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

```
 ; SOFTWARE: Proprietary
 ; SEQ ID NO 97086
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
US-11-101-244-97086
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0;
```

```
QY      23 CAACCCGCGCCUUGUCC 41
Db      1 CAACCCGCGCCUUGUCC 19
```

RESULT 787

```
US-11-101-244-97087
 ; Sequence 97087, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmoon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13499US
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; PRIOR FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIOR FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIOR FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO 97087
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
US-11-101-244-97087
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0;
```

```
QY      1537 GUGAACACCCUUGUGACA 1555
Db      1 GUGAACACCCUUGUGACA 19
```

RESULT 788

```
US-11-101-244-97088
 ; Sequence 97088, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmoon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13499US
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; PRIOR FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIOR FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIOR FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
```

```
 ; SEQ ID NO 97088
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
US-11-101-244-97088
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0;
```

```
QY      1271 UCUCCAAGCCUCCAUCCA 1289
Db      1 UCUCCAAGCCUCCAUCCA 19
```

RESULT 789

```
US-11-101-244-97089
 ; Sequence 97089, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmoon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13499US
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; PRIOR FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIOR FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIOR FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO 97089
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
US-11-101-244-97089
```

```
Query Match          1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0;
```

```
QY      680 GUGAGCCCAACAUAUCUU 698
Db      1 GUGAGCCCAACAUAUCUU 19
```

RESULT 790

```
US-11-101-244-97090
 ; Sequence 97090, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmoon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13499US
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; PRIOR FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIOR FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIOR FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
```


LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97090

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 373 UUUAGACCCUACAUCACA 391
Db 1 UUUAGACCCUACAUCACA 19

RESULT 791
US-11-101-244-97091
Sequence 97091, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97091
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97091

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 759 GAUCUUAAGGAACUGAA 777
Db 1 GAUCUUAAGGAACUGAA 19

RESULT 792
US-11-101-244-97092
Sequence 97092, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97092
LENGTH: 19

TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97092

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 262 CUGGUAUUGUGUUAUUA 280
Db 1 CUGGUAUUGUGUUAUUA 19

RESULT 793
US-11-101-244-97093
Sequence 97093, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97093
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-97093

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 249 CAUCGCAACAUCCUGUA 267
Db 1 CAUCGCAACAUCCUGUA 19

RESULT 794
US-11-101-244-97094
Sequence 97094, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97094
LENGTH: 19
TYPE: RNA

ORGANISM: Homo sapiens
US-11-101-244-97094

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 493 GACGAGUACUUTUCCAUCA 511
|||||
DB 1 GACGAGUACUUTUCCAUCA 19

RESULT 795

US-11-101-244-97095
Sequence 97095, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

PRIOR FILING DATE: 2003-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97095

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97095

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 452 CCAGCAATGCCUCUGUUAU 470
|||||
DB 1 CCAGCAATGCCUCUGUUAU 19

RESULT 796
US-11-101-244-97096
Sequence 97096, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

PRIOR FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97096

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97096

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1407 GAAGACCGAAGUCAGAU 1425
|||||
DB 1 GAAGACCGAAGUCAGAU 19

RESULT 797

US-11-101-244-97097
Sequence 97097, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

PRIOR FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97097

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97097

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 91 CCGGAGCCGUCACUCUAU 109
|||||
DB 1 CCGGAGCCGUCACUCUAU 19

RESULT 798
US-11-101-244-97098
Sequence 97098, Application US/11101244
Publication No. US20050246794A1

GENERAL INFORMATION:

APPLICANT: Dharmoon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101,244

PRIOR FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 97098

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-97098

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 284 UCACAGCAGCGCUGAGAC 302
DB 1 UCACAGCAGCGCUGAGAC 19
|||||

RESULT 799

US-11-127-877-144
; Sequence 144, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:

; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel G.
; APPLICANT: Spittaels, Koensraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877

; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 144
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens

US-11-127-877-144

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 4.3e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 291 GCAGCTGAGAGCGGTCAC 309
DB 1 GCAGCTGAGAGCGGTCAC 19
|||||

RESULT 800

US-11-127-877-145
; Sequence 145, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:

; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel G.
; APPLICANT: Spittaels, Koensraad F. F.
; APPLICANT: Laenen, Wendy

; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877

; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 145
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens

US-11-127-877-145

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;

Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 549 GAGAGCGGUGUGAGUAGC 567
DB 1 GAGAGCGGUGUGAGUAGC 19
|||||

RESULT 801

US-11-127-877-146
; Sequence 146, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:

; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel G.
; APPLICANT: Spittaels, Koensraad F. F.
; APPLICANT: Laenen, Wendy

; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877

; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 146
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens

US-11-127-877-146

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 4.3e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1014 CAACAUGAGUGGUGGCGC 1032
DB 1 CAACAUGAGUGGUGGCGC 19
|||||

RESULT 802

US-11-127-877-147
; Sequence 147, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:

; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel G.
; APPLICANT: Spittaels, Koensraad F. F.
; APPLICANT: Laenen, Wendy

; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877

; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 147
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens

US-11-127-877-147

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 4.3e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1581 UCUGGCGUACUGGUGGCGC 1599


```

; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 209
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc.feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
US-10-798-090-209
```

```
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 315 CUCCUCUUAAGCCUGGCC 333

Db 1 CUCCUCUUAAGCCUGGCC 19

RESULT 806
US-10-798-090-210

```

; Sequence 210, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 210
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
```

```

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc.feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
US-10-798-090-210
```

```
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 317 UCCUCUUAAGCCUGGCCUG 335

Db 1 UCCUCUUAAGCCUGGCCUG 19

RESULT 807
US-10-798-090-211

```

; Sequence 211, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 211
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc.feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
US-10-798-090-211
```

```
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 975 GCAGUGAGCAAGACAC 993

Db 1 GCAGUGAGCAAGACAC 19

RESULT 808
US-10-798-090-212
; Sequence 212, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR FILING DATE: 2004-01-14
; PRIOR FILING DATE: 2003-11-24
; PRIOR FILING DATE: 2003-11-24
; PRIOR FILING DATE: 2003-10-23
; PRIOR FILING DATE: 2003-10-23
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 212
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA sense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-212

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGACGACA 1730
Db 1 AGCAGUACGACGACGACA 19

RESULT 809
US-10-798-090-213
; Sequence 213, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR FILING DATE: 2004-01-14
; PRIOR FILING DATE: 2003-11-24
; PRIOR FILING DATE: 2003-11-24
; PRIOR FILING DATE: 2003-10-23
; PRIOR FILING DATE: 2003-10-23
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 213
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA sense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-213

; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 213
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: s1NA sense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-213

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGACGACG 1732
Db 1 CAGUACGACGACGACG 19

RESULT 810
US-10-798-090-214
; Sequence 214, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20

;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: Patent version 3.3
;; SEQ ID NO 214
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
US-10-798-090-214

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGAGACAGUC 1733
DB 1 AGUACGACGAGACAGUC 19

RESULT 811

US-10-798-090-215/c

;; Sequence 215, Application US/10798090

;; Publication No. US20050014172A1

;; GENERAL INFORMATION:

;; APPLICANT: Sirna Therapeutics, Inc.

;; APPLICANT: Richards, Ivan

;; APPLICANT: McSwiggen, James

;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

;; TITLE OF INVENTION: (siNA)

;; FILE REFERENCE: 400/147 (MHB04-183)

;; CURRENT APPLICATION NUMBER: US/10/798,090

;; PRIOR FILING DATE: 2004-03-11

;; PRIOR APPLICATION NUMBER: US 10/757,803

;; PRIOR FILING DATE: 2004-01-14

;; PRIOR APPLICATION NUMBER: US 10/720,448

;; PRIOR FILING DATE: 2003-11-24

;; PRIOR APPLICATION NUMBER: US 10/693,059

;; PRIOR FILING DATE: 2003-10-23

;; PRIOR APPLICATION NUMBER: US 10/444,853

;; PRIOR FILING DATE: 2003-05-23

;; PRIOR APPLICATION NUMBER: PCT/US03/05346

;; PRIOR FILING DATE: 2003-02-20

;; PRIOR APPLICATION NUMBER: PCT/US03/05028

;; PRIOR FILING DATE: 2003-02-20

;; PRIOR APPLICATION NUMBER: US 60/358,580

;; PRIOR FILING DATE: 2002-02-20

;; PRIOR APPLICATION NUMBER: US 60/363,124

;; PRIOR FILING DATE: 2002-03-11

;; PRIOR APPLICATION NUMBER: US 60/386,782

;; PRIOR FILING DATE: 2002-06-06

;; PRIOR APPLICATION NUMBER: US 60/406,784

;; PRIOR FILING DATE: 2002-08-29

;; Remaining Prior Application data removed - See File Wrapper or PALM.

;; NUMBER OF SEQ ID NOS: 304

;; SOFTWARE: Patent version 3.3

;; SEQ ID NO 215

;; LENGTH: 21

;; TYPE: RNA

;; ORGANISM: Artificial Sequence

;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region

;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
US-10-798-090-215

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACACCTGCGCCUU 35
DB 19 ACAGTACACCTGCGCTT 1

RESULT 812

US-10-798-090-216/c

;; Sequence 216, Application US/10798090

;; Publication No. US20050014172A1

;; GENERAL INFORMATION:

;; APPLICANT: Sirna Therapeutics, Inc.

;; APPLICANT: Richards, Ivan

;; APPLICANT: McSwiggen, James

;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic

;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid

;; TITLE OF INVENTION: (siNA)

;; FILE REFERENCE: 400/147 (MHB04-183)

;; CURRENT APPLICATION NUMBER: US/10/798,090

;; PRIOR FILING DATE: 2004-03-11

;; PRIOR APPLICATION NUMBER: US 10/757,803

;; PRIOR FILING DATE: 2004-01-14

;; PRIOR APPLICATION NUMBER: US 10/720,448

;; PRIOR FILING DATE: 2003-11-24

;; PRIOR APPLICATION NUMBER: US 10/693,059

;; PRIOR FILING DATE: 2003-10-23

;; PRIOR APPLICATION NUMBER: US 10/444,853

;; PRIOR FILING DATE: 2003-05-23

;; PRIOR APPLICATION NUMBER: PCT/US03/05346

;; PRIOR FILING DATE: 2003-02-20

;; PRIOR APPLICATION NUMBER: PCT/US03/05028

;; PRIOR FILING DATE: 2003-02-20

;; PRIOR APPLICATION NUMBER: US 60/358,580

;; PRIOR FILING DATE: 2002-02-20

;; PRIOR APPLICATION NUMBER: US 60/363,124

;; PRIOR FILING DATE: 2002-03-11

;; PRIOR APPLICATION NUMBER: US 60/386,782

;; PRIOR FILING DATE: 2002-06-06

;; PRIOR APPLICATION NUMBER: US 60/406,784

;; PRIOR FILING DATE: 2002-08-29

;; Remaining Prior Application data removed - See File Wrapper or PALM.

;; NUMBER OF SEQ ID NOS: 304

;; SOFTWARE: Patent version 3.3

;; SEQ ID NO 216

;; LENGTH: 21

;; TYPE: RNA

;; ORGANISM: Artificial Sequence

;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region

;; NAME/KEY: misc_feature

;; LOCATION: (20)..(21)

;; OTHER INFORMATION: n stands for thymidine
US-10-798-090-216

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACACCGCGCCUUGUU 39
DB 19 TACACCTGCGCTTGT 1

```
RESULT 813
US-10-798-090-217/C
; Sequence 217, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 217
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-217

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      315 CUUCUCUUAAGCCUGGCC 333
DB      19 CTCCTCTTAAGCCTGGCC 1

RESULT 814
US-10-798-090-218/C
; Sequence 218, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
```

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; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 218
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-218

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      317 UCCUCUUAAGCCUGGCCUG 335
DB      19 TCCTCTTAAGCCTGGCCTG 1

RESULT 815
US-10-798-090-219/C
; Sequence 219, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
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; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patent version 3.3
; SEQ ID NO 219
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n is a, c, g, or u
US-10-798-090-219

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      975 GCAGUAGCAGCAAGCCAC 993
      |||:|||||
Db      19 GCAGATGCAGCAAGCCAC 1

RESULT 816
US-10-798-090-220/c
; Sequence 220, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patent version 3.3
; SEQ ID NO 220
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
```

```

; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-220

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1714 AGCAGUACGACGAGACA 1730
      |||:|||||
Db      19 AGCAGTACGACGAGACA 1

RESULT 817
US-10-798-090-221/c
; Sequence 221, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patent version 3.3
; SEQ ID NO 221
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-221

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1714 CAGUACGACGAGACAGU 1732
      |||:|||||
Db      19 CAGTACGACGAGACAGT 1

RESULT 818
US-10-798-090-222/c
```

```
/ Sequence 222, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: MCSwigen, James
/ APPLICANT: Richards, Ivan
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (s1nA)
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 222
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
/ NAME/KEY: misc feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
US-10-798-090-222

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGACGACGACGUC 1733
DB 19 AGTACCAGCAGACGACGATC 1

RESULT 819
US-10-798-090-223
/ Sequence 223, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: MCSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (s1nA)
/ FILE REFERENCE: 400/147 (MEHB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 223
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
/ NAME/KEY: misc feature
/ LOCATION: (7)..(7)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ NAME/KEY: misc feature
/ LOCATION: (10)..(13)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ NAME/KEY: misc feature
/ LOCATION: (15)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: n stands for thymidine
/ NAME/KEY: misc feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-223

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACUCCGCCUUU 35
DB 1 ACAGUACAACUCCGCCUUU 19

RESULT 820
US-10-798-090-224
/ Sequence 224, Application US/10798090
/ Publication No. US20050014172A1
```

```
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 223
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
/ NAME/KEY: misc feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
/ FEATURE:
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ NAME/KEY: misc feature
/ LOCATION: (2)..(2)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ NAME/KEY: misc feature
/ LOCATION: (5)..(5)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ NAME/KEY: misc feature
/ LOCATION: (7)..(7)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ NAME/KEY: misc feature
/ LOCATION: (10)..(13)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ NAME/KEY: misc feature
/ LOCATION: (15)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ OTHER INFORMATION: n stands for thymidine
/ NAME/KEY: misc feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-224

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACUCCGCCUUU 35
DB 1 ACAGUACAACUCCGCCUUU 19

RESULT 820
US-10-798-090-224
/ Sequence 224, Application US/10798090
/ Publication No. US20050014172A1
```

GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MSB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 224
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (6)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (11)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (17)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
US-10-798-090-224

Query Match 1.1%; Score 19; DB 1; Length 21;
Best local Similarity 100.0%; Pred. No. 5,1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 1 UACACCCUGCCCUUGUU 39
OY 21 UACACCCUGCCCUUGUU 39
Db 1 UACACCCUGCCCUUGUU 19
RESULT 821
US-10-798-090-225
Sequence 225, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MSB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 225
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(9)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (13)..(15)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (18)..(19)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
US-10-798-090-224

NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-225

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUCCUCUUAAGCCUGGCC 333
|||||
DB 1 CUCCUCUUAAGCCUGGCC 19

RESULT 822
US-10-798-090-226
Sequence 226, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (s1nA)
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 226
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
NAME/KEY: misc feature
LOCATION: (1)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (11)-(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (16)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro

FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-226

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUUAAGCCUGGCCUG 335
|||||
DB 1 UCCUCUUAAGCCUGGCCUG 19

RESULT 823
US-10-798-090-227
Sequence 227, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (s1nA)
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 227
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (2)-(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (6)..(6)

```
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (10)..(11)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-227
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 975 GCAGAGCAGCAGACAC 993

Db 1 GCAGAGCAGCAGACAC 19

RESULT 824

```
US-10-798-090-228
Sequence 228, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBH04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: Patentn version 3.3
SEQ ID NO 228
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
```

```
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (12)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-228
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1712 AGCAGUACGACGAGACA 1730

Db 1 AGCAGUACGACGAGACA 19

RESULT 825

```
US-10-798-090-229
Sequence 229, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBH04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
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;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 229
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (4)..(4)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (6)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(10)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (16)..(16)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (19)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-229

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1714 CAGUACGACGACGACAGU 1732
Db      1 CAGUACGACGACGACAGU 19

RESULT 826
US-10-798-090-230
;; Sequence 230, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sigma Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: MCSwiggan, James
;; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colinergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (siNA)
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;; FILE REFERENCE: 400/147 (MBH04-183)
;; CURRENT APPLICATION NUMBER: US/10798,090
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 230
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (3)..(3)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (5)..(6)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (9)..(9)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (15)..(15)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (18)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-230

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1715 AGUACGACGACGACAGUC 1733
Db      1 AGUACGACGACGACAGUC 19
```

RESULT 827
US-10-798-090-231/c
Sequence 231, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 231
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirta antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage

US-10-798-090-231
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
Qy 17 ACAGUACAACCCGCCUUU 35
Db 19 ACAGTACACCTCGCCTT 1
RESULT 828
US-10-798-090-232/c
Sequence 232, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 232
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirta antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)

LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-798-090-234

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 317 UCCUCUUAAGCCUGGCTG 335
Db 19 TCCTTTAGCCTGCGCTG 1

RESULT 831
US-10-798-090-235/c
Sequence 235, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 235
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(8)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:

NAME/KEY: misc_feature
LOCATION: (15)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-798-090-235

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 975 GCAGUGACCAAGACCAC 993
Db 19 GCAGATGACCAAGACCAC 1

RESULT 832
US-10-798-090-236/c
Sequence 236, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 236
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:

```
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-798-090-236
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred.No.5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1712 AGCAGUACGACGAGACA 1730
Db 19 AGCAGTACCAGCAGACGA 1
```

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RESULT 833
US-10-798-090-237/c
Sequence 237, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: McSwiggen, James
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sina)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-06-29
```

```
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 237
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sina antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(18)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-798-090-237
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred.No.5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
Oy 1714 CAGUACGACGACGACG 1732
Db 19 CAGTACCAGCAGACGAT 1
```

```
RESULT 834
US-10-798-090-238/c
Sequence 238, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: McSwiggen, James
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sina)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
```

;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 238
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
;; NAME/KEY: misc_feature
;; LOCATION: (3)..(4)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (6)..(10)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (12)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (16)..(16)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (18)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(20)
;; OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
US-10-798-090-238
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
CY 1715 AGUACGAGCAGACAGUC 1733
DB 19 AGTACCAGCAGACAGCAGTC 1
RESULT 835
US-10-798-090-239
;; Sequence 239, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sigma Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: McSwigen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (siNA)
;; FILE REFERENCE: 400/147 (MBHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14

;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 239
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
;; NAME/KEY: misc_feature
;; LOCATION: (2)..(2)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (3)..(4)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (5)..(5)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (6)..(6)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (7)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (8)..(9)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (14)..(14)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (15)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature

```

; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-239

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      17 ACAGUACAACCGCCUUU 35
Db      1 ACAGUACAACCGCCUUU 19

RESULT 836
US-10-798-090-240
; Sequence 240, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/7798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/593,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 240
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; NAME/KEY: misc_feature
; LOCATION: (2)..(2)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
```

```

; NAME/KEY: misc_feature
; LOCATION: (3)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(5)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(16)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-240

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      21 UACAACCCUGCCUUUGUUU 39
Db      1 UACAACCCUGCCUUUGUUU 19

RESULT 837
US-10-798-090-241
; Sequence 241, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/7798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
```

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; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sinA sense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(11)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(12)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(17)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-241

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      315 CUUCCUUAAGCCUGGCC 333
Db      1 CUUCCUUAAGCCUGGCC 19

RESULT 838
US-10-798-090-242
; Sequence 242, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sinna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEH804-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
```

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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 242
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sinA sense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(7)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(11)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(10)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(15)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(18)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-242

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      317 UCCUUAAGCCUGGCCUG 335
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DB 1 UCCUCUUAAGCCUGGCCUG 19

RESULT 839

US-10-798-090-243
Sequence 243, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (s1NA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 243
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
FEATURE: Description of Artificial Sequence: sigma sense region
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(9)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(11)

OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)..(15)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
US-10-798-090-243

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5,1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 975 GCAGATGACCAAGACCAC 993

DB 1 GCAGATGACCAAGACCAC 19

RESULT 840

US-10-798-090-244
Sequence 244, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (s1NA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3

```
SEQ ID NO 244
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: 5' sense region
NAME/KEY: misc feature
LOCATION: (1)-(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (3)-(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (4)-(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (6)-(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (7)-(7)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (8)-(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (10)-(11)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (12)-(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (13)-(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (18)-(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (19)-(19)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)-(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)-(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-244
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1712 AGCAGUACGACGAGACA 1730
Db 1 AGCAGUACGACGAGACA 19
```

```
RESULT 841
US-10-798-090-245
Sequence 245. Application US/10798090
Publication No. US2005004172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (SINA)
FILE REFERENCE: 400/147 (MBHB04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 245
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: 5' sense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (2)-(3)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (4)-(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (5)-(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (6)-(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (8)-(9)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
```

```
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(15)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(18)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-245
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1714 CAGUACGACGACGACGUC 1732
Db       1 CAGUACGACGACGACGACGUC 19
```

```
RESULT 842
US-10-798-090-246
Sequence 246, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
```

```
SOFTWARE: PatentIn version 3.3
SEQ ID NO 246
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)-(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(8)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-246
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1715 AGUACGACGACGACGUC 1733
Db       1 AGUACGACGACGACGACGUC 19
```

```
RESULT 843
US-10-798-090-247/c
Sequence 247, Application US/10798090
```


Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (s1NA)
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 247
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(10)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(13)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:

NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-247
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 17 ACAGUACAACCTGCGCCUU 35
DB 19 ACAGTACAACCTGCGCTT 1
RESULT 844
US-10-798-090-248/C
Sequence 248, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (s1NA)
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 248
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(3)
OTHER INFORMATION: 2'-deoxy

```
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-248

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 21 UACACUCUGCCUUGUUU 39
Db 19 TACAACCTGCGCTTTGTTT 1

RESULT 845
US-10-798-090-249/c
; Sequence 249, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinegic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
```

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PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 249
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(7)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(19)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-249

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 315 CUUCCUCUAGCGCC 333
Db 19 CTTCCTTAGCGCTGACC 1

RESULT 846
US-10-798-090-250/c
; Sequence 250, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinegic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sRNA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
```

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;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 250
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (2)..(4)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (5)..(6)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (7)..(9)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(12)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (13)..(19)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(20)
;; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-250
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 317 UCCUCUUAAGCCUGGCGUG 335
Db 19 TCCTCTTAGCCTGGCGCTG 1
```

```
RESULT 847
US-10-798-090-251/c
;; Sequence 251, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirna Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (siRNA)
;; FILE REFERENCE: 400/147 (MHR04-183)
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 251
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (2)..(2)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (3)..(4)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (5)..(8)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (9)..(10)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (11)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (14)..(14)
;; OTHER INFORMATION: 2'-deoxy
;; NAME/KEY: misc_feature
```

```
LOCATION: (15)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-251
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 975 GCAGGACGACCAAGCCAC 993
DB 19 GCAGATGACCAAGCCAC 1
```

```
RESULT 848
US-10-798-090-252/C
Sequence 252, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: Patentin version 3.3
SEQ ID NO 252
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
```

```
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(8)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-252
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1712 AGCAGTACGACGACGACA 1730
DB 19 AGCAGTACGACGACGACA 1
```

```
RESULT 849
US-10-798-090-253/C
Sequence 253, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (siNA)
```

FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 253
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE: NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy
FEATURE: NAME/KEY: misc_feature
LOCATION: (2)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE: NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy
FEATURE: NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE: NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy
FEATURE: NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE: NAME/KEY: misc_feature
LOCATION: (13)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE: NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE: NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy
FEATURE: NAME/KEY: misc_feature
LOCATION: (17)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:

NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy
FEATURE: NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE: NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
US-10-798-090-253
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 1714 CAGUACCGACGACGACGU 1732
Db 19 CAGTACCGACGACGACGT 1
RESULT 850
US-10-798-090-254/C
Sequence 254, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE OF INVENTION: (siRNA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 254
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE: NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE: NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:

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FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(11)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(15)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-798-090-254

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred.No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1715 AGUACGACGACGACGACGUC 1733
Db      19 AGTACCAGACGACGACGATC 1

RESULT 851
US-10-798-090-255
Sequence 255, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Stima Therapeutics, Inc.
APPLICANT: McSwiggen, Ivan
APPLICANT: Richards, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sinn)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 255
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sinn sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
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US-10-798-090-255

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5,1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACCCUGCCUU 35
|||||
DB 1 ACAGUACAACCCUGCCUU 19

RESULT 852

US-10-798-090-256
; Sequence 256, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patent version 3.3
; SEQ ID NO 256
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(2)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(5)

; OTHER INFORMATION: 2'-O-methyl

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (6)..(9)

; OTHER INFORMATION: 2'-deoxy-2'-fluoro

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (10)..(10)

; OTHER INFORMATION: 2'-O-methyl

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (11)..(15)

; OTHER INFORMATION: 2'-deoxy-2'-fluoro

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (16)..(16)

; OTHER INFORMATION: 2'-O-methyl

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (20)..(21)

; OTHER INFORMATION: n stands for thymidine

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (21)..(21)

; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety

US-10-798-090-256

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5,1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACCCUGCCUUUGUU 39
|||||
DB 1 UACAACCCUGCCUUUGUU 19

RESULT 853

US-10-798-090-257
; Sequence 257, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784

;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 257
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(9)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(11)
;; OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (10)..(12)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (13)..(15)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (16)..(17)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (18)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
US-10-798-090-257

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUUCCUUAAGCCUGGCC 333
DB 1 CUUCCUUAAGCCUGGCC 19

RESULT 854
US-10-798-090-258
; Sequence 258, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (SINA)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23

;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 258
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (8)..(10)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (11)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (14)..(15)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (16)..(18)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (19)..(19)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
US-10-798-090-258

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCCUUAAGCCUGGCC 335
DB 1 UCCUCCUUAAGCCUGGCC 19

RESULT 855
US-10-798-090-259
; Sequence 259, Application US/10798090


```
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MEB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 259
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
/ NAME/KEY: misc_feature
/ LOCATION: (2)..(2)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (3)..(5)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (6)..(6)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (7)..(9)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (10)..(11)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (12)..(15)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
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/ NAME/KEY: misc_feature
/ LOCATION: (16)..(17)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (18)..(18)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n strands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
/ US-10-798-090-259

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 975 GCAGUGACCAAGACCAC 993
Db 1 GCAGUGACCAAGACCAC 19

RESULT 856
US-10-798-090-260
/ Sequence 260, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ FILE REFERENCE: 400/147 (MEB04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ CURRENT FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 260
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
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FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyribose moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(5)
OTHER INFORMATION: 2'-O-methyl
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(7)
OTHER INFORMATION: 2'-O-methyl
NAME/KEY: misc_feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(11)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(17)
OTHER INFORMATION: 2'-O-methyl
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-O-methyl
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyribose moiety
US-10-798-090-260

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1712 AGCAGUACGACGACGACA 1730
DB      1 AGCAGUACGACGACGACA 19

RESULT 857
US-10-798-090-261
Sequence 261, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
```

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APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MBH04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 261
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyribose moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(3)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-O-methyl
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(15)
OTHER INFORMATION: 2'-O-methyl
```

```
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(18)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-261
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1714 CAGUACGACGACGACGU 1732

Db 1 CAGUACGACGACGACGU 19

RESULT 858
US-10-798-090-262

```
Sequence 262, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIORITY APPLICATION NUMBER: US 10/757,803
PRIORITY FILING DATE: 2004-01-14
PRIORITY APPLICATION NUMBER: US 10/720,448
PRIORITY FILING DATE: 2003-11-24
PRIORITY APPLICATION NUMBER: US 10/693,059
PRIORITY FILING DATE: 2003-10-23
PRIORITY APPLICATION NUMBER: US 10/444,853
PRIORITY FILING DATE: 2003-05-23
PRIORITY APPLICATION NUMBER: PCT/US03/05346
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: PCT/US03/05028
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: US 60/358,580
PRIORITY FILING DATE: 2002-02-20
PRIORITY APPLICATION NUMBER: US 60/363,124
PRIORITY FILING DATE: 2002-03-11
PRIORITY APPLICATION NUMBER: US 60/386,782
PRIORITY FILING DATE: 2002-06-06
PRIORITY APPLICATION NUMBER: US 60/406,784
PRIORITY FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: Patent version 3.3
SEQ ID NO 262
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
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OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(8)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-262
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1715 AGUACGACGACGACGUC 1733

Db 1 AGUACGACGACGACGUC 19

RESULT 859
US-10-798-090-263/c
Sequence 263, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic

TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE OF INVENTION: (s1nA)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 263
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc_feature
LOCATION: (1)..(5)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(10)
OTHER INFORMATION: 2'-O-methyl
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(13)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)

OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-263
Query Match 1.1%; Score 19; DB 1; Length 21;
Best local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 17 ACAGUACAACUCCUCCUU 35
Db 19 ACAGTACAACCTGCCTT 1
|||||:|||||:|||||:
US-10-798-090-264/c
; Sequence 264, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 264
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(3)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature

```
/ LOCATION: (5)..(9)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (10)..(10)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (11)..(14)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (15)..(16)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (17)..(17)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (18)..(18)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(20)
/ OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-264
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
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```
QY 21 UGAAACCTGCGCCUUGUUT 39
:|||||:|||||:|||||:
Db 19 TACAACCTGCGCTTGT 1
```

```
RESULT 861
US-10-798-090-265/c
; Sequence 265, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
```

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/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 265
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
```

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/ NAME/KEY: misc_feature
/ LOCATION: (1)..(2)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (3)..(4)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (5)..(7)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (8)..(10)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (11)..(19)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(20)
/ OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-265
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
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```
QY 315 CUUCUCUUAAGCCGCGC 333
:|||||:|||||:|||||:
Db 19 CTTCCTTAGCCTGGCC 1
```

```
RESULT 862
US-10-798-090-266/c
; Sequence 266, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
```

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; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 266
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(4)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(9)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(19)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
; US-10-798-090-266

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUUAAGCCUGGCGCTG 335
Db 19 TCCTCTTAAGCCTGCGCTG 1

RESULT 863
US-10-798-090-267/C
; Sequence 267, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
```

```

; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE OF INVENTION: (s1nA)
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 267
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(2)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(4)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(8)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (9)..(10)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(14)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(17)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(18)
; OTHER INFORMATION: 2'-O-methyl
```

```
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(20)
/ OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-267

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      975 GCAGAGGACCAAGACCAC 993
      |||||:|||||
Db      19 GCAGATGACCAAGACCAC 1

RESULT 864
US-10-798-090-268/c
/ Sequence 268, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (s1nA)
/ FILE REFERENCE: 400/147 (MBH04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-10-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 60/363,124
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/386,782
/ PRIOR FILING DATE: 2002-06-06
/ PRIOR APPLICATION NUMBER: US 60/406,784
/ PRIOR FILING DATE: 2002-08-29
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 304
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 268
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: s1nA antisense region
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (2)..(2)
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/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (3)..(7)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (8)..(8)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (9)..(10)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (11)..(12)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (13)..(13)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (14)..(14)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (15)..(16)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (17)..(17)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(20)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(20)
/ OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-268

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1712 AGCAGUACGACGACAGACA 1730
      |||||:|||||
Db      19 AGCAGTACGACGACAGACA 1

RESULT 865
US-10-798-090-269/c
/ Sequence 269, Application US/10798090
/ Publication No. US20050014172A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirta Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
/ TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
/ TITLE OF INVENTION: (s1nA)
/ FILE REFERENCE: 400/147 (MBH04-183)
/ CURRENT APPLICATION NUMBER: US/10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
```

PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 269
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)

OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-269
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1714 CAGUACGACGACGACG 1732
DB 19 CAGTACGACGACGACGT 1
RESULT 866
US-10-798-090-270/c
Sequence 270, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MEH04-183)
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US/10/798,090
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 270
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature


```
LOCATION: (6)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(11)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(15)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
US-10-798-090-270
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1715 AGUACGACGAGACGAGCUC 1733
Db 19 AGTACCAGACGAGACGAGTC 1
```

```
RESULT 867
US-10-798-090-271
Sequence 271, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinerbic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
```

```
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 271
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
US-10-798-090-271
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 17 ACAGUACACCCUGCCUUU 35
Db 1 ACAGUACACCCUGCCUUU 19
```

```
RESULT 868
US-10-798-090-272
Sequence 272, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinerbic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
```

```
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 272
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-272
```

```
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      21 UACAACTCCGCGCCUUGUU 39
Db      1 UACAACTCCGCGCCUUGUU 19
```

RESULT 869

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US-10-798-090-273
; Sequence 273, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 273
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
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```
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-273
```

```
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      315 CUUCCUCUUAAGCCUGCC 333
Db      1 CUUCCUCUUAAGCCUGCC 19
```

RESULT 870

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US-10-798-090-274
; Sequence 274, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 274
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
```

```

; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
US-10-798-090-274

```

Query Match	1.1%;	Score 19;	DB 1;	Length 21;
Best Local Similarity	100.0%;	Pred. No. 5.1e+02;		
Matches 19;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy 317 UCCUCUUAAGCCUGGCCUG 335
|||
Db 1 UCCUCUUAAGCCUGGCCUG 19

```

RESULT 871
US-10-798-090-275
; Sequence 275, Application US/10798090
; Publication No. US2005001472A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sirna)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798, 090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757, 803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720, 448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693, 059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444, 853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358, 580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363, 124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386, 782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406, 784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 275
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
; FEATURE:
; NAME/KEY: misc:feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3' attached terminal deoxyriabasic moiety
; FEATURE:
; NAME/KEY: misc:feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc:feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3' attached terminal deoxyriabasic moiety
; US-10-798-090-275

```

Query Match	1.1%;	Score 19;	DB 1;	Length 21;
Best Local Similarity	100.0%;	Pred. No. 5.1e+02;		
Matches 19;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 975 GCAGATGGACCAAGACCAC 993
|||
Db 1 GCAGATGGACCAAGACCAC 19

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RESULT 872
US-10-798-090-276
: Sequence 276, Application US/10798090
: Publication No. US20050014172A1
: GENERAL INFORMATION:
:   APPLICANT: Sirna Therapeutics, Inc.
:   APPLICANT: Richards, Ivan
:   APPLICANT: McSwigen, James
:   TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinnergic
:   TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
:   FILE OF INVENTION: (sina)
:   FILE REFERENCE: 400/147 (MBHB04-183)
:   CURRENT APPLICATION NUMBER: US/10/798,090
:   CURRENT FILING DATE: 2004-03-11
:   PRIOR APPLICATION NUMBER: US 10/757,803
:   PRIOR FILING DATE: 2004-01-14
:   PRIOR APPLICATION NUMBER: US 10/720,448
:   PRIOR FILING DATE: 2003-11-24
:   PRIOR APPLICATION NUMBER: US 10/693,059
:   PRIOR FILING DATE: 2003-10-23
:   PRIOR APPLICATION NUMBER: US 10/444,853
:   PRIOR FILING DATE: 2003-05-23
:   PRIOR APPLICATION NUMBER: PCT/US03/05346
:   PRIOR FILING DATE: 2003-02-20
:   PRIOR APPLICATION NUMBER: PCT/US03/05028
:   PRIOR FILING DATE: 2003-02-20
:   PRIOR APPLICATION NUMBER: US 60/358,580
:   PRIOR FILING DATE: 2002-02-20
:   PRIOR APPLICATION NUMBER: US 60/363,124
:   PRIOR FILING DATE: 2002-03-11
:   PRIOR APPLICATION NUMBER: US 60/386,782
:   PRIOR FILING DATE: 2002-06-06
:   PRIOR APPLICATION NUMBER: US 60/406,784
:   PRIOR FILING DATE: 2002-08-29
:   Remaining Prior Application data removed - See File Wrapper or PALM.
:   NUMBER OF SEQ ID NOS: 304
:   SOFTWARE: PatentIn version 3.3
:   SEQ ID NO 276
:   LENGTH: 21
:   TYPE: RNA
:   ORGANISM: Artificial Sequence
:   FEATURE:
:   OTHER INFORMATION: Description of Artificial Sequence: sina sense region
:   FEATURE:
:   NAME/KEY: misc_feature
:   LOCATION: (1)..(1)
:   OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
:   FEATURE:
:   NAME/KEY: misc_feature
:   LOCATION: (20)..(21)
:   OTHER INFORMATION: n stands for thymidine
:   FEATURE:
:   NAME/KEY: misc_feature
:   LOCATION: (21)..(21)
:   OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
:   US-10-798-090-276
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5,1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1712 AGCAGUCCAGCAGAGACA 1730
|||||

```

Db 1 AGCAGUACGACGACAGA 19

RESULT 873
US-10-798-090-277
; Sequence 277, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sina)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 277
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sina sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-277

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGACGACAGU 1732
|||||
Db 1 CAGUACGACGACGACAGU 19

RESULT 874
US-10-798-090-278
; Sequence 278, Application US/10798090
; Publication No. US20050014172A1

; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sina)
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT FILING DATE: 2004-03-11
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 278
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sina sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-798-090-278

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGACGACAGUC 1733
|||||
Db 1 AGUACGACGACGACAGUC 19

RESULT 875
US-10-798-090-279/C
; Sequence 279, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (sina)

```
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 279
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-279

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      17 ACAGUACAACCCGCTTUU 35
Db      19 ACAGTACAACCTCGCCTTT 1

RESULT 876
US-10-798-090-280/c
Sequence 280, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
```

```
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 280
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-280

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      21 UACACCTCCGCTTUGUU 39
Db      19 TACAACCTCGCCTTGTTT 1

RESULT 877
US-10-798-090-281/c
Sequence 281, Application US/10798090
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
CURRENT FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-10-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/386,782
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/406,784
PRIOR FILING DATE: 2002-08-29
```

```

; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 281
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-281
```

```

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      315 CUUCUCUUAAGCCUGGCC 333
          |||:|:|:|:|:|:|:|:|:|
Db      19 CTCCTCTTAAGCCTGCGCC 1
```

```

RESULT 878
US-10-798-090-282/c
; Sequence 282, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 282
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
```

```

; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-282
```

```

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      317 UCUCUUAAGCCUGGCCUG 335
          |||:|:|:|:|:|:|:|:|:|
Db      19 TCCTCTTAAGCCTGCGCTG 1
```

```

RESULT 879
US-10-798-090-283/c
; Sequence 283, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (s1NA)
; FILE REFERENCE: 400/147 (MBHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 283
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-283
```

```

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
```

```
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 975 GCAGAGGACCAAGCCAC 993
Db 19 GCAGATGACCAAGACCAC 1
RESULT 880
US-10-798-090-284/c
; Sequence 284, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 284
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-798-090-284
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5,1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1712 AGCAGUACGACGAGACA 1730
Db 19 AGCAGTACCAGCAGAGACA 1
RESULT 881
US-10-798-090-285/c
; Sequence 285, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 285
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sRNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-798-090-285
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5,1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 1714 CAGUACGACGACGAGAGU 1732
Db 19 CAGTACCAGCAGAGACAGT 1
RESULT 882
US-10-798-090-286/c
; Sequence 286, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
```

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; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 286
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-798-090-286
```

```
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1715 AGUACGAGGAGAGAGAGUC 1733
Db      19  AGTACCAGGAGAGACAGTC 1
```

```

RESULT 883
US-10-798-090-296
; Sequence 296, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
```

```

; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 296
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (1)-(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-296
```

```
Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1011 GAACAACAUGAUGGUGCU 1029
Db      1  GAACAACAUGAUGGUGCU 19
```

```

RESULT 884
US-10-798-090-297/c
; Sequence 297, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siNA)
; FILE REFERENCE: 400/147 (MHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2002-06-06
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;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 297
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(20)
;; OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-3 attached terminal glyceryl moiety
US-10-798-090-297

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 5.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACAACAUAUGUGUGCU 1029
Db      19  GAACAACAATGATGCTGCT 1

RESULT 885
US-10-798-090-298
;; Sequence 298, Application US/10798090
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sigma Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: McSwigen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (siNA)
;; FILE REFERENCE: 400/147 (MHB04-183)
;; CURRENT APPLICATION NUMBER: US/10/798,090
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 298
;; LENGTH: 21
;; TYPE: RNA
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;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(3)
;; OTHER INFORMATION: 2'-O-Methyl
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (5)..(6)
;; OTHER INFORMATION: 2'-O-Methyl
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (8)..(9)
;; OTHER INFORMATION: 2'-O-Methyl
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (11)..(12)
;; OTHER INFORMATION: 2'-O-Methyl
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (14)..(14)
;; OTHER INFORMATION: 2'-O-Methyl
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (17)..(17)
;; OTHER INFORMATION: 2'-O-Methyl
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (4)..(4)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (7)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(10)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (13)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (15)..(16)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (18)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(20)
;; OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
US-10-798-090-298

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACAACAUAUGUGUGCU 1029
Db      1  GAACAACAUAUGUGUGCU 19

RESULT 886
US-10-798-090-299/c
;; Sequence 299, Application US/10798090
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Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sirta)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
PRIORITY FILING DATE: 2004-03-11
PRIORITY APPLICATION NUMBER: US 10/757,803
PRIORITY FILING DATE: 2004-01-14
PRIORITY APPLICATION NUMBER: US 10/720,448
PRIORITY FILING DATE: 2003-11-24
PRIORITY APPLICATION NUMBER: US 10/693,059
PRIORITY FILING DATE: 2003-10-23
PRIORITY APPLICATION NUMBER: US 10/444,853
PRIORITY FILING DATE: 2003-05-23
PRIORITY APPLICATION NUMBER: PCT/US03/05346
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: PCT/US03/05028
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: US 60/358,580
PRIORITY FILING DATE: 2002-02-20
PRIORITY APPLICATION NUMBER: US 60/363,124
PRIORITY FILING DATE: 2002-03-11
PRIORITY APPLICATION NUMBER: US 60/386,782
PRIORITY FILING DATE: 2002-06-06
PRIORITY APPLICATION NUMBER: US 60/406,784
PRIORITY FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 304
SOFTWARE: PatentIn version 3.3
SEQ ID NO 299
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirta antisense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(2)
OTHER INFORMATION: 2'-O-Methyl
FEATURE:
NAME/KEY: misc feature
LOCATION: (4)-(5)
OTHER INFORMATION: 2'-O-Methyl
FEATURE:
NAME/KEY: misc feature
LOCATION: (7)-(7)
OTHER INFORMATION: 2'-O-Methyl
FEATURE:
NAME/KEY: misc feature
LOCATION: (10)-(10)
OTHER INFORMATION: 2'-O-Methyl
FEATURE:
NAME/KEY: misc feature
LOCATION: (13)-(13)
OTHER INFORMATION: 2'-O-Methyl
FEATURE:
NAME/KEY: misc feature
LOCATION: (16)-(16)
OTHER INFORMATION: 2'-O-Methyl
FEATURE:
NAME/KEY: misc feature
LOCATION: (3)-(3)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (6)-(6)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:

NAME/KEY: misc feature
LOCATION: (8)-(9)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (11)-(12)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (14)-(15)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (17)-(19)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)-(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)-(20)
OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide linkage
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)-(21)
OTHER INFORMATION: 3'-3 attached terminal glyceryl moiety
US-10-798-090-299
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 5.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1011 GAACAACAAUGAGUCGCU 1029
DB 19 GAACAACATGATGCTGCT 1
RESULT 887
US-10-798-090-300
Sequence 300, Application US/10798090
Publication No. US20050014172A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colineergic
TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
TITLE OF INVENTION: (sirta)
FILE REFERENCE: 400/147 (MEHB04-183)
CURRENT APPLICATION NUMBER: US/10/798,090
PRIORITY FILING DATE: 2004-03-11
PRIORITY APPLICATION NUMBER: US 10/757,803
PRIORITY FILING DATE: 2004-01-14
PRIORITY APPLICATION NUMBER: US 10/720,448
PRIORITY FILING DATE: 2003-11-24
PRIORITY APPLICATION NUMBER: US 10/693,059
PRIORITY FILING DATE: 2003-10-23
PRIORITY APPLICATION NUMBER: US 10/444,853
PRIORITY FILING DATE: 2003-05-23
PRIORITY APPLICATION NUMBER: PCT/US03/05346
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: PCT/US03/05028
PRIORITY FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: US 60/358,580
PRIORITY FILING DATE: 2002-02-20
PRIORITY APPLICATION NUMBER: US 60/363,124
PRIORITY FILING DATE: 2002-03-11
PRIORITY APPLICATION NUMBER: US 60/386,782
PRIORITY FILING DATE: 2002-06-06
PRIORITY APPLICATION NUMBER: US 60/406,784
PRIORITY FILING DATE: 2002-08-29
Remaining Prior Application data removed - See File Wrapper or PALM.

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; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 300
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(4)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(7)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(16)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyribose moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-798-090-300

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACAACAUGAUGGUGCU 1029
DB      1 GAACAACAUGAUGGUGCU 19

RESULT 889
US-10-798-090-301/c
; Sequence 301, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Cholinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MBH04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
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; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 301
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal glyceryl moiety
US-10-798-090-301

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 5.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACAACAUGAUGGUGCU 1029
DB      19 GAACAACAUGAUGGUGCT 1

RESULT 889
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US-10-798-090-302
; Sequence 302, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/406,784
; PRIOR FILING DATE: 2002-08-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 304
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 302
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(3)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(6)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(9)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(14)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(17)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(4)
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; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(7)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(16)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; US-10-798-090-302

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACAAACAUGAGUCGUCU 1029
Db      1 GAACAAACAUGAGUCGUCU 19

RESULT 890
US-10-798-090-303
; Sequence 303, Application US/10798090
; Publication No. US20050014172A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwigen, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colinergic
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; FILE REFERENCE: 400/147 (MEHB04-183)
; CURRENT APPLICATION NUMBER: US/10/798,090
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
```

;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 303
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: s1nA sense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (4)..(4)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (7)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(10)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (13)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (15)..(16)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (18)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; US-10-798-090-303
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1011 GAACAACAUGAUGGUGU 1029
Db 1 GAACAACAUGAUGGUGU 19

RESULT 891
US-10-798-090-304/c
;; Publication No. US20050014172A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirta Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: McSwiggen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Muscarinic Colnergic
;; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
;; TITLE OF INVENTION: (s1nA)
;; FILE REFERENCE: 400/147 (MEHB04-183)

;; CURRENT APPLICATION NUMBER: US/10/798,090
;; CURRENT FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-10-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; PRIOR APPLICATION NUMBER: US 60/363,124
;; PRIOR FILING DATE: 2002-03-11
;; PRIOR APPLICATION NUMBER: US 60/386,782
;; PRIOR FILING DATE: 2002-06-06
;; PRIOR APPLICATION NUMBER: US 60/406,784
;; PRIOR FILING DATE: 2002-08-29
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 304
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 304
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: s1nA antisense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(2)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (4)..(5)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (7)..(7)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(10)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (13)..(13)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (16)..(16)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (3)..(3)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (6)..(6)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (8)..(9)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (11)..(12)
;; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
;; FEATURE:
;; NAME/KEY: misc_feature

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; LOCATION: (14)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal glyceryl moiety
US-10-798-090-304

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1011 GAACAACAUGAUGCUCU 1029
DB 19 GAACAACAATGATGCTGCT 1

RESULT 892
US-10-919-866-207
; Sequence 207, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 207
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
; FEATURE:
```

```

; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-207

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACCCUCCUU 35
DB 1 ACAGUACAACCCUCCUU 19

RESULT 893
US-10-919-866-208
; Sequence 208, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 208
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-208

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACCCUCCUUUU 39
DB 1 UACAACCCUCCUUUU 19

RESULT 894
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US-10-919-866-209
; Sequence 209, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 209
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-209

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5,1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUUCUUAAGCCUGGCC 333
DB 1 CUUCUUAAGCCUGGCC 19

RESULT 895
US-10-919-866-210
; Sequence 210, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 210
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-210

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5,1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUUAAGCCUGGCCUG 335
DB 1 UCCUCUUAAGCCUGGCCUG 19

RESULT 896
US-10-919-866-211
; Sequence 211, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028

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; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 211
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-211

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      975 GCAGUUGACCAAGACCAC 993
DB      1 GCAGUUGACCAAGACCAC 19

RESULT 897
US-10-919-866-212
; Sequence 212, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 212
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
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; OTHER INFORMATION: n stands for thymidine
US-10-919-866-212

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1712 AGCAGUACCGACGAGACA 1730
DB      1 AGCAGUACCGACGAGACA 19

RESULT 898
US-10-919-866-213
; Sequence 213, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 213
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-213

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1714 CAGUACCGACGAGACAGU 1732
DB      1 CAGUACCGACGAGACAGU 19

RESULT 899
US-10-919-866-214
; Sequence 214, Application US/10919866
```



```
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 214
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
US-10-919-866-214

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGAGACAGUC 1733
DB 1 AGUACGACGAGACAGUC 19

RESULT 900
US-10-919-866-215/c
/ Sequence 215, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
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/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 215
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
US-10-919-866-215

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred.No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACCTCGCCTTU 35
DB 19 ACAGUACAACCTCGCCTT 1

RESULT 901
US-10-919-866-216/c
/ Sequence 216, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sigma Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 216
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
US-10-919-866-216
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; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 216
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-216

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      21 UGCAACCCUGCCUUGUUU 39
Db      19 TACAACCTGCGCTTGTATT 1

RESULT 902
US-10-919-866-217/C
; Sequence 217, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McGwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 217
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-217
```

```

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      315 CUUCUCUUAAGCCUGGCC 333
Db      19 CTTCCTTAAGCCTGCGC 1

RESULT 903
US-10-919-866-218/C
; Sequence 218, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McGwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 218
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-218

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      317 UCCUCUUAAGCCUGGCCUG 335
Db      19 TCCTCTTAAGCCTGCGCTG 1

RESULT 904
US-10-919-866-219/C
; Sequence 219, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/798,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n is a, c, g, or u
US-10-919-866-219

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Cy      975 GCAGUGGACCAAGCCAC 993
      |||||:|||||
Db      19 GCAGATGACCAAGCCAC 1

RESULT 905
US-10-919-866-220/c
; Sequence 220, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/798,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 220
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-220

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Cy      1712 AGCAGUACCGACGAGACA 1730
      |||||:|||||
Db      19 AGCAGTACCGACGAGACA 1

RESULT 906
US-10-919-866-221/c
; Sequence 221, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US 10/798,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
```

NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 221
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
US-10-919-866-221

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGACGACAGU 1732
DB 19 CAGTACGACGACGACAGT 1

RESULT 907
US-10-919-866-222/c
Sequence 222, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT FILING DATE: 2004-08-17
PRIOR FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 222
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
US-10-919-866-222

Query Match 1.1%; Score 19; DB 1; Length 21;

Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGACGACGUC 1733
DB 19 AGTACGACGACGACGATC 1

RESULT 908
US-10-919-866-223
Sequence 223, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 223
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature

```
/ LOCATION: (15)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n strands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-223

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      17 ACAGUACAACCTCGCCUUT 35
Db      1 ACAGUACAACCTCGCCUUT 19

RESULT 909
US-10-919-866-224
/ Sequence 224, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 224
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
/ FEATURE:
```

```
/ NAME/KEY: misc_feature
/ LOCATION: (3)..(3)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (6)..(9)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (11)..(15)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (17)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n strands for thymidine
/ FEATURE:
/ NAME/KEY: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-224

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      21 UACAACCTCGCCUUGUUU 39
Db      1 UACAACCTCGCCUUGUUU 19

RESULT 910
US-10-919-866-225
/ Sequence 225, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwigen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MEHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 225
/ LENGTH: 21
```

```

; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(9)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (13)..(15)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-225
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```

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      315 CUCCUCUUAAGCCUGGCC 333
Db      1 CUCCUCUUAAGCCUGGCC 19
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RESULT 911
US-10-919-866-226
; Sequence 226, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEH804-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
```

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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(7)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (11)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (16)..(18)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-226
```

```

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      317 UCCUCUUAAGCCUGGCCUG 335
Db      1 UCCUCUUAAGCCUGGCCUG 19
```

```

RESULT 912
US-10-919-866-227
; Sequence 227, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEH804-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
```

```
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 227
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(11)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(2)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(11)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(17)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-227

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      975 GCAGUGGACCAAGCCAC 993
Db      1 GCAGUGGACCAAGCCAC 19

RESULT 913
US-10-919-866-228
; Sequence 228, Application US/10919866
; Publication No. US2005017666A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
```

```
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 228
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (12)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(18)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-228

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1712 AGCAGUACGACGACAGACA 1730
Db      1 AGCAGUACGACGACAGACA 19

RESULT 914
US-10-919-866-229
; Sequence 229, Application US/10919866
```

Publication No. US20050176654A1

GENERAL INFORMATION:

APPLICANT: Sigma Therapeutics, Inc.

APPLICANT: Richards, Ivan

APPLICANT: McSwiggen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition of Cholinergic Muscarinic Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic Acids (siRNA)

TITLE OF INVENTION: Acid (siRNA)

FILE REFERENCE: 400/205 (MEH04-183-A)

CURRENT FILING DATE: 2004-08-17

PRIOR APPLICATION NUMBER: US 10/919,866

PRIOR FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: PCT/US04/16390

PRIOR FILING DATE: 2004-05-24

PRIOR APPLICATION NUMBER: US 10/826,966

PRIOR FILING DATE: 2004-04-16

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-11-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 324

SOFTWARE: PatentIn version 3.3

SEQ ID NO 229

LENGTH: 21

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: siNA sense region

FEATURE:

NAME/KEY: misc_feature

LOCATION: (1)..(1)

OTHER INFORMATION: 2'-deoxy-2'-fluoro

FEATURE:

NAME/KEY: misc_feature

LOCATION: (1)..(1)

OTHER INFORMATION: 5'-3' attached terminal deoxyribose moiety

FEATURE:

NAME/KEY: misc_feature

LOCATION: (4)..(4)

OTHER INFORMATION: 2'-deoxy-2'-fluoro

FEATURE:

NAME/KEY: misc_feature

LOCATION: (6)..(7)

OTHER INFORMATION: 2'-deoxy-2'-fluoro

FEATURE:

NAME/KEY: misc_feature

LOCATION: (10)..(10)

OTHER INFORMATION: 2'-deoxy-2'-fluoro

FEATURE:

NAME/KEY: misc_feature

LOCATION: (16)..(16)

OTHER INFORMATION: 2'-deoxy-2'-fluoro

FEATURE:

NAME/KEY: misc_feature

LOCATION: (19)..(19)

OTHER INFORMATION: 2'-deoxy-2'-fluoro

FEATURE:

NAME/KEY: misc_feature

LOCATION: (20)..(21)

OTHER INFORMATION: n stands for thymidine

FEATURE:

```

; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-229

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5,1e+02;
Matches    19; Conservative    0; Mismatches    0; Indels    0; Gaps    0;

OY      1714 CAGUACGACGAGACAGU 1732
         |||||
Db       1   CAGUACGACGAGACAGU 19

RESULT 915
US-10-919-866-230
; Sequence 230, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (SINA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
SEQ ID NO 230
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME//KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME//KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME//KEY: misc_feature
LOCATION: (5)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME//KEY: misc_feature
LOCATION: (9)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro

```



```
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-230

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGAGAGAGAGAGC 1733
DB 1 AGUACGAGAGAGAGAGC 19

RESULT 916
US-10-919-866-231/C
Sequence 231, Application US/10919866
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MHB04-183-A)
CURRENT FILING DATE: US/10/919,866
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 231
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc_feature
LOCATION: (6)..(6)
```

```
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-919-866-231

Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACCCGCCUUU 35
DB 19 ACAGTACAACCTGCCTT 1

RESULT 917
US-10-919-866-232/C
Sequence 232, Application US/10919866
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MHB04-183-A)
CURRENT FILING DATE: US/10/919,866
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 232
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(16)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(18)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorochiocate 3'-Internucleotide Linkage
US-10-919-866-232

```

```

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      21 UACACCTGCGCCUUGUU 39
Db      19 TACCACTGCGCTTGT 1

```

```

RESULT 918
US-10-919-866-233/c
; Sequence 233, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20

```

```

; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 233
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorochiocate 3'-Internucleotide Linkage
US-10-919-866-233

```

```

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      315 CUUCUCUUAAGCCUGCC 333
Db      19 CTTCCTTAGCGCTGCC 1

```

```

RESULT 919
US-10-919-866-234/c
; Sequence 234, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.

```


XX AEA02370;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 254.
DE
XX
XX Respiratory-Gen.; Antitachycardic; Antiasthmatic; Antiallergic; Antiinflammatory;
KW
XX Neuroprotective; Nootropic; Uropathic; asthma; allergic rhinitis;
KW
XX Chronic obstructive pulmonary disease; allergy; cystic fibrosis; alzheimers disease;
KW
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT
XX disease.
XX
XX
XX Claim 33; SEQ ID NO 254; 184pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
CC
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
CC
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
CC
XX useful for treating or preventing respiratory and pulmonary diseases,
CC
XX disorders, and/or conditions, including chronic obstructive pulmonary
CC
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX
XX Best Local Similarity 89.5%; Pred. No. 1.9e+02;
XX
XX Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
XX
XX 1715 AGUACGACGACGACGACGUC 1733
DB 19 AGTACCAGCAGACAGACGTC 1

RESULT 596
AEA02384/C
ID AEA02384 standard; RNA; 21 BP.
XX
XX AEA02384;
AC
DT

XX
DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 268.
DE
XX
XX Respiratory-Gen.; Antitachycardic; Antiasthmatic; Antiallergic; Antiinflammatory;
KW
XX Neuroprotective; Nootropic; Uropathic;
KW
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT
XX disease.
XX
XX
XX Claim 33; SEQ ID NO 268; 184pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
CC
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
CC
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
CC
XX useful for treating or preventing respiratory and pulmonary diseases,
CC
XX disorders, and/or conditions, including chronic obstructive pulmonary
CC
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
XX Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
XX
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX
XX Best Local Similarity 94.7%; Pred. No. 1.9e+02;
XX
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX
XX 1712 AGCAGUACGACGACGACGACA 1730
DB 19 AGCAGTACGACGACGACGACA 1

RESULT 597
AEA02334/C
ID AEA02334 standard; RNA; 21 BP.
XX
XX AEA02334;
AC
XX 28-JUL-2005 (first entry)
DT

RESULT 593
AEA02382/c
ID AEA02382 standard; RNA; 21 BP.
XX
AC AEA02382;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 266.
XX
KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neutroprotective; Neotropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826986.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 266; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.9e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 317 UCCUCUAGCCGCGCUG 335
Db 19 TCCTCTTAAGCCTGCGCTG 1
RESULT 594

AEA02408/c
ID AEA02408 standard; RNA; 21 BP.
XX
AC AEA02408;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 292.
XX
KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neutroprotective; Neotropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826986.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 292; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.9e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1712 AGCAGUACACGACAGACA 1730
Db 19 AGCAGTACACGACAGACA 1
RESULT 595
AEA02370/c
ID AEA02370 standard; RNA; 21 BP.

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACCGAGCAGACAGUC 1733
|||:|||||:|||||:
19 AGTACCAGCAGACAGACGTC 1

RESULT 589
AEA02362
ID AEA02362 standard; RNA; 21 BP.
XX
XX AEA02362;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 246.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS
XX Synthetic.
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00798090.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
XX Richard I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
DR
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PT
XX
XX Claim 33; SEQ ID NO 246; 184pp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACCGAGCAGACAGUC 1733
|||||:|||||:|||||:
1 AGUACCGAGCAGACAGUC 19

RESULT 590
AEA02366/c
ID AEA02366 standard; RNA; 21 BP.
XX
XX AEA02366;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 250.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS
XX Synthetic.
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00798090.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
XX Richard I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
DR
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PT
XX
XX Claim 33; SEQ ID NO 250; 184pp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.9e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

CC Present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACGACGACGACAGUC 1733
DB 19 AGTACGACGACGACAGATC 1
RESULT 587
AEA02352/c
ID AEA02352 standard; RNA; 21 BP.
XX
XX AEA02352;
AC
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 236.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX MO2005045040-A2.
PN
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
DR
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 236; 184pp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SQ Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.9e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGACAGACA 1730
DB 19 AGCGTACGACGACAGACA 1
RESULT 588
AEA02354/c
ID AEA02354 standard; RNA; 21 BP.
XX
XX AEA02354;
AC
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 238.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX MO2005045040-A2.
PN
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
DR
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 238; 184pp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;

CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX SQ Sequence 21 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACCCGCGCCUUGUUU 39

Db 1 UACAACCCGCGCCUUGUUU 19

RESULT 585

AEA02398/c

ID AEA02398 standard; RNA; 21 BP.

XX AEA02398;

DT 28-JUL-2005 (first entry)

XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 282.

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;

XX Neutropoietic; Nootropic; Uropathic;

XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;

XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;

XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

XX siRNA; RNA interference; gene silencing; short interfering RNA.

XX Synthetic.

XX WO2005045040-A2.

XX 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

XX 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727780.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004US-00826966.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

PR 17-AUG-2004; 2004US-00919866.

XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Richards I, Macswiggen J;

XX WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

XX Claim 33; SEQ ID NO 282; 184pp; English.

XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary

CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX SQ Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred.No.1.9e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCCUAGCCGCGCCUG 335

Db 19 TCCTCTTAGCCTGCGCTG 1

RESULT 586

AEA02418/c

ID AEA02418 standard; RNA; 21 BP.

XX AEA02418;

DT 28-JUL-2005 (first entry)

XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 302.

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;

XX Neutropoietic; Nootropic; Uropathic;

XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;

XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;

XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

XX siRNA; RNA interference; gene silencing; short interfering RNA.

XX Synthetic.

XX WO2005045040-A2.

XX 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

XX 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727780.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00798090.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004US-00826966.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Richards I, Macswiggen J;

XX WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

XX Claim 33; SEQ ID NO 302; 184pp; English.

XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The

The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule that directs cleavage of a

choolinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference (RNAi). The siNA molecule, compounds, compositions, and methods are

PT disease.
XX
PS Claim 33; SEQ ID NO 298; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.9e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 317 UCCUCUUAAGCCUGGCGCUG 335
DB 19 TCCTCTTAAGCCTGGCCTG 1
RESULT 581
AEA02426
ID AEA02426 standard; RNA; 21 BP.
XX
AC AEA02426;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 319.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.

PS Claim 33; SEQ ID NO 319; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 4 C; 4 G; 2 T; 4 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1011 GAACACACAUGAUGGCGCU 1029
DB 1 GAACACACAUGAUGGCGCU 19
RESULT 582
AEA02329
ID AEA02329 standard; RNA; 21 BP.
XX
AC AEA02329;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 213.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 213; 184pp; English.
XX

PT	XX	New short interfering nucleic acid molecule that directs cleavage of a
PT	XX	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	XX	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	XX	disease.
PS	XX	Claim 33; SEQ ID NO 262; 184pp; English.
CC	XX	The invention relates to a chemically synthesized double stranded short
CC	XX	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	XX	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	XX	(RNAi). The siRNA molecule, compounds, compositions, and methods are
CC	XX	useful for treating or preventing respiratory and pulmonary diseases,
CC	XX	disorders, and/or conditions, including chronic obstructive pulmonary
CC	XX	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	XX	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	XX	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	XX	
XX	XX	Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
QY	DB	Query Match 1.1%; Score 19; DB 1; Length 21;
		Best Local Similarity 100.0%; Pred. No. 1.9e+02;
		Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
		1715 AGUACGACGACAGACAGC 1733
		1 AGUACGACGACAGACAGC 19
RESULT 579		
AEAO2345		
ID	AEAO2345	standard; RNA; 21 BP.
AC	AEAO2345;	
XX		
DT	28-JUL-2005	(first entry)
XX		
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 229.	
XX		
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;	
KW	Neuroprotective; Nootropic; Utopathic;	
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;	
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;	
KW	mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;	
KW	siRNA; RNA interference; gene silencing; short interfering RNA.	
XX	Synthetic.	
OS		
XX	WO2005045040-A2.	
FN		
PD	19-MAY-2005.	
XX		
PF	20-AUG-2004; 2004WO-US027367.	
XX		
PR	23-OCT-2003; 2003US-00693059.	
PR	24-NOV-2003; 2003US-00720448.	
PR	03-DEC-2003; 2003US-00727780.	
PR	14-JAN-2004; 2004US-00757803.	
PR	10-FEB-2004; 2004US-0543480P.	
PR	13-FEB-2004; 2004US-00780447.	
PR	11-MAR-2004; 2004US-00798090.	
PR	16-APR-2004; 2004US-00825966.	
PR	30-APR-2004; 2004WO-US013456.	
PR	24-MAY-2004; 2004WO-US016390.	
PR	17-AUG-2004; 2004US-00919866.	
XX		
PA	(SIRN-) SIRNA THERAPEUTICS INC.	
PI	Richards I, Macewigen J;	
XX		
DR	WPI; 2005-356237/36.	
PT		New short interfering nucleic acid molecule that directs cleavage of a

PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PS	disease.
XX	
PS	Claim 33; SEQ ID NO 229; 184bp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SQ	Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
XX	
Query Match	1.1%; Score 19; DB 1; Length 21;
Best Local Similarity	100.0%; Pred. No. 1.9e+02;
Matches	19; Conservative 0; Mismatches 0; Indels 0; Gaps
OY	1714 CAGUACCGAGAGACAGU 1732 1 CAGUACCGAGAGACAGU 19
Db	
RESULT 580	
AEA02414/c	
ID	AEA02414 standard; RNA; 21 BP.
XX	
AC	AEA02414;
XX	
DT	28-JUL-2005 (first entry)
XX	
DB	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 298.
XX	
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Uropathic;
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KW	mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
OS	synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004MO-US015390.
PR	17-AUG-2004; 2004US-00919866.
PA	(SIRN-) SIRNA THERAPEUTICS INC.
P1	Richards I, Macswigen J;
DR	WPI; 2005-356237/36.
XX	
XX	New short interfering nucleic acid molecule that directs cleavage of a
XX	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX	disease.

XX
PI Richards I, Macswiggen J;
DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 243; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 975 GCAGUAGACCAAGACCAC 993
DB 1 GCAGUAGACCAAGACCAC 19
|||||
RESULT 577
AEA02377
ID AEA02377 standard; RNA; 21 BP.
XX
AC AEA02377;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 261.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Neurotropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR

XX
DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 261; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1714 CAGUACGACGAGACAGU 1732
DB 1 CAGUACGACGAGACAGU 19
|||||
RESULT 578
AEA02378
ID AEA02378 standard; RNA; 21 BP.
XX
AC AEA02378;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 262.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Neurotropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.

PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 259; 184bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGUGGACCAAGACCAC 993
DB 1 GCAGUGGACCAAGACCAC 19
|||||
RESULT 575
AEA02346
ID AEA02346 standard; RNA; 21 BP.
XX
AC AEA02346;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 230.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-007808090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
PR

XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 230; 184bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACGAGAGACAGUC 1733
DB 1 AGUACGAGAGACAGUC 19
|||||
RESULT 576
AEA02359
ID AEA02359 standard; RNA; 21 BP.
XX
AC AEA02359;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 243.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-007808090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
PR
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX

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PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 240; 184dp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX Best Local Similarity 100.0%; Pred. No. 1.9e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 21 UACAACCGCGCCUUGUUU 39
Db 1 UACAACCGCGCCUUGUUU 19

RESULT 573
AEA02368/c
ID AEA02368 standard; RNA; 21 BP.
XX
XX AC AEA02368;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 252.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neuroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.

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PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 252; 184dp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX Best Local Similarity 94.7%; Pred. No. 1.9e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 1712 AGCAGUACGACGAGAGACA 1730
Db 19 AGCAGTACGACGAGAGACA 1

RESULT 574
AEA02375
ID AEA02375 standard; RNA; 21 BP.
XX
XX AC AEA02375;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 259.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neuroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.

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PR	14-JAN-2004;	2004US-005757803.
PR	10-FEB-2004;	2004US-0534480P.
PR	13-FEB-2004;	2004US-00780447.
PR	11-MAR-2004;	2004US-00798090.
PR	16-APR-2004;	2004US-00826966.
PR	30-APR-2004;	2004WO-US013456.
PR	24-MAY-2004;	2004WO-US016390.
PR	17-AUG-2004;	2004US-00919866.
PA	(SIRN-) SIRNA THERAPEUTICS INC.	
XX		
PI	Richards I, Macswiggen J;	
XX		
DR	WPI, 2005-356237/36.	
XX		
PT	New short interfering nucleic acid molecule that directs cleavage of a	
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing	
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary	
PT	disease.	
XX		
PS	Claim 33; SEQ ID NO 314; 184bp; English.	
XX		
CC	The invention relates to a chemically synthesized double stranded short	
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a	
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference	
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are	
CC	useful for treating or preventing respiratory and pulmonary diseases,	
CC	disorders, and/or conditions, including chronic obstructive pulmonary	
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,	
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The	
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.	
XX		
SO	Sequence 21 BP; 7 A; 4 C; 4 G; 2 T; 4 U; 0 Other;	
Query Match	1.1%; Score 19; DB 1; Length 21;	
Best Local Similarity	100.0%; Pred. No. 1.9e+02;	
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
OY	1011 GACACACAGAUGCUCGU 1029	
DB	1 GACACACAGAUGCUCGU 19	
RESULT 572		
AEA02356		
ID	AEA02356 standard; RNA; 21 BP.	
XX		
AC	AEA02356;	
XX		
DT	28-JUL-2005 (first entry)	
XX		
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 240.	
XX		
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;	
KW	Neuroprotective; Nootropic; Urogastric; Asthma; Allergic rhinitis;	
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;	
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;	
KW	mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;	
KW	siRNA; RNA interference; gene silencing; short interfering RNA.	
XX		
OS	Synthetic.	
XX		
FN	WO2005045040-A2.	
XX		
PD	19-MAY-2005.	
XX		
PF	20-AUG-2004; 2004WO-US027367.	
XX		
PR	23-OCT-2003; 2003US-00693059.	
PR	24-NOV-2003; 2003US-00720448.	
PR	03-DEC-2003; 2003US-00727780.	
PR	14-JAN-2004; 2004US-00757803.	
PR	10-FEB-2004; 2004US-0534480P.	


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XX 20-AUG-2004; 2004WO-US027367.
PF 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-00757803.
PR 13-FEB-2004; 2004US-0543480P.
PR 11-MAR-2004; 2004US-00780447.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richard I, Macewiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 270; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACGACGACGACGACGUC 1733
DB 19 AGTACCAGCAGACGACGATC 1
RESULT 569
AEA02423
ID AEA02423 standard; RNA; 21 BP.
XX
XX AEA02423;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 316.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX

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XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richard I, Macewiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 316; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 7 A; 4 C; 4 G; 2 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1011 GAACACAAUGAUGGUGCU 1029
DB 1 GAACACAAUGAUGGUGCU 19
RESULT 570
AEA02394
ID AEA02394 standard; RNA; 21 BP.
XX
XX AEA02394;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 278.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX

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XX WO2005045040-A2.
PN 19-MAY-2005.
XX 20-AUG-2004; 2004WO-US027367.
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
DR New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PT
XX
XX
PS Claim 33; SEQ ID NO 300; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.9e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGAGACA 1730
Db |||||:|||||
19 AGCAGTACCAGCAGAGACA 1
RESULT 567
AEA02324
ID AEA02324 standard; RNA; 21 BP.
XX
AC AEA02324;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 208.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX WO2005045040-A2.
PN

XX 19-MAY-2005.
PD 20-AUG-2004; 2004WO-US027367.
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
DR New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PT
XX
XX
PS Claim 33; SEQ ID NO 208; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 21 UACAACTCCGCCCTTGGTUU 39
Db |||||:|||||
1 UACAACTCCGCCCTTGGTUU 19
RESULT 568
AEA02386/c
ID AEA02386 standard; RNA; 21 BP.
XX
AC AEA02386;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 270.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX WO2005045040-A2.
PN 19-MAY-2005.
XX

KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 OS Synthetic.
 XX WO2005045040-A2.
 XX
 XX 19-MAY-2005.
 XX
 XX 20-AUG-2004; 2004WO-US027367.
 PF
 XX 23-OCT-2003; 2003US-00693059.
 PR
 XX 24-NOV-2003; 2003US-00720448.
 PR
 XX 03-DEC-2003; 2003US-00727780.
 PR
 XX 14-JAN-2004; 2004US-00757803.
 PR
 XX 10-FEB-2004; 2004US-0543480P.
 PR
 XX 13-FEB-2004; 2004US-00780447.
 PR
 XX 11-MAR-2004; 2004US-00798090.
 PR
 XX 16-APR-2004; 2004US-00826966.
 PR
 XX 30-APR-2004; 2004WO-US013456.
 PR
 XX 24-MAY-2004; 2004WO-US016390.
 PR
 XX 17-AUG-2004; 2004US-00919866.
 XX
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 XX Richarde I, Macswiggen J;
 PI
 XX WPI; 2005-356237/36.
 DR
 XX
 XX New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 XX Claim 33; SEQ ID NO 220; 184bp; English.
 PS
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 CC
 XX Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
 SQ
 XX
 XX Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 94.7%; Pred. No. 1.9e+02;
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1712 AGCAGUACCGACGACAGACA 1730
 DB 19 AGCAGTACCGACGACAGACA 1
 DE
 XX RESULT 565
 AEA02402/C
 ID AEA02402 standard; RNA; 21 BP.
 XX
 XX AEA02402;
 AC
 XX 28-JUL-2005 (first entry)
 DT
 XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 286.
 DE
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neutroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.

XX
 OS Synthetic.
 XX WO2005045040-A2.
 XX
 XX 19-MAY-2005.
 XX
 XX 20-AUG-2004; 2004WO-US027367.
 PF
 XX 23-OCT-2003; 2003US-00693059.
 PR
 XX 24-NOV-2003; 2003US-00720448.
 PR
 XX 03-DEC-2003; 2003US-00727780.
 PR
 XX 14-JAN-2004; 2004US-00757803.
 PR
 XX 10-FEB-2004; 2004US-0543480P.
 PR
 XX 13-FEB-2004; 2004US-00780447.
 PR
 XX 11-MAR-2004; 2004US-00798090.
 PR
 XX 16-APR-2004; 2004US-00826966.
 PR
 XX 30-APR-2004; 2004WO-US013456.
 PR
 XX 24-MAY-2004; 2004WO-US016390.
 PR
 XX 17-AUG-2004; 2004US-00919866.
 XX
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 XX Richarde I, Macswiggen J;
 PI
 XX WPI; 2005-356237/36.
 DR
 XX
 XX New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 XX Claim 33; SEQ ID NO 286; 184bp; English.
 PS
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 CC
 XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
 SQ
 XX
 XX Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 89.5%; Pred. No. 1.9e+02;
 Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 1715 AGUACCGACGACGACGUC 1733
 DB 19 AGTACCGACGACGACGATC 1
 DE
 XX RESULT 566
 AEA02416/C
 ID AEA02416 standard; RNA; 21 BP.
 XX
 XX AEA02416;
 AC
 XX 28-JUL-2005 (first entry)
 DT
 XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 300.
 DE
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neutroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.

UN 005014172-A1.

XX PD 20-JAN-2005.

XX PF 11-MAR-2004; 2004US-00798090.

XX PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002MO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003MO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 14-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.

XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.

XX PI Richards I, Mcswigen J;

XX DR WPI: 2005-090672/10.

XX PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3

XX PT RNA through RNA interference, useful for treating asthma.

PS Disclosure; SEQ ID NO 298; 84bp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

SQ Sequence 21 BP; 7 A; 4 C; 4 G; 2 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DY 1011 GAACAACAUGCUCU 1029
|||
1 GAACAACAUGAUCGUCU 19

DB

RESULT 564
AEA02336/C
ID AEA02336 standard; RNA; 21 BP.
AC
XX AEA02336;
DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 220.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;

PS Disclosure; SEQ ID NO 222; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACGACGACGACGACGUC 1733
DB 19 AGTACCAGCAGACGACGATC 1
RESULT 561
ADM27957/C
ID ADM27957 standard; RNA; 21 BP.
AC ADM27957;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #254.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-FEB-2003; 2003WO-US005346.
PR 23-MAY-2003; 2003US-00427160.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX

PA (RICH/) RICHARDS I.
PA (MCSM/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR MPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 254; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACGACGACGACGACGUC 1733
DB 19 AGTACCAGCAGACGACGATC 1
RESULT 562
ADM27985/C
ID ADM27985 standard; RNA; 21 BP.
AC ADM27985;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #282.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR

Db 19 AGTACCAGACAGACAGTC 1
||:|||||:|||||:|
RESULT 559
ADM27973/c
ID ADM27973 standard; RNA; 21 BP.
XX
AC ADM27973;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #270.
XX
KW gene expression; antispasmodic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 270; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance

CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1715 AGUACCAGACAGACAGCUC 1733
Db 19 AGTACCAGACAGACAGTC 1
||:|||||:|||||:|
RESULT 560
ADM27925/c
ID ADM27925 standard; RNA; 21 BP.
XX
AC ADM27925;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #222.
XX
KW gene expression; antispasmodic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX

```

OS Synthetic.
XX Key Location/Qualifiers
FT misc_difference 20..21
FT /tag=a
FT /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 236; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX Best Local Similarity 94.7%; Pred. No. 1.9e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1712 AGCAGUACGACGACGACA 1730
XX 19 AGCAGTACCAGACGACGACA 1
XX
XX RESULT 558
XX ADW27941/C
XX ID ADW27941 standard; RNA; 21 BP.
XX
XX ADW27941;
XX
XX 07-APR-2005 (first entry)

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```

XX
XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #238.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX OS
XX
XX Key Location/Qualifiers
XX FT misc_difference 20..21
XX FT /tag=a
XX FT /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 238; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX Best Local Similarity 89.5%; Pred. No. 1.9e+02;
XX Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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XX 1715 AGUACGACGACGACGACGAC 1733

```

PR 20-FEB-2003; 2003WO-US005346-
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSM/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 286; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1715 AGUACCAGACAGACAGUC 1733
Db ||:|||||||:|||||:
19 AGTACCAGACAGACAGACGTC 1
XX
RESULT 556
ID ADM27916 standard; RNA; 21 BP.
XX
AC ADM27916;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #213.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX

PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSM/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 213; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1714 CAGUACCAGACAGACAGU 1732
Db |||||||||:|||||:
1 CAGUACCAGACAGACAGU 19
XX
RESULT 557
ID ADM27939/C
XX
AC ADM27939 standard; RNA; 21 BP.
XX
AD ADM27939;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #236.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (1) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (1) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (1) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.

XX Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;

Qy Query Match 1.1%; Score 19; DB 1; Length 21; Best Local Similarity 68.4%; Pred. No. 1.9e+02; Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Db 317 UCCUCUAGCCGCGCCUG 335
19 TCCTCTTAGCCTGCGCTG 1

RESULT 554
ADM27987/C
ID ADM27987 standard; RNA; 21 BP.
XX
AC ADM27987;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #284.
XX
KM gene expression; antiasthmatic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; neotropic; uropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease; incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21 a
FT /tag= a
FT /note= "deoxythymidine nucleotide"

US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-05005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-0044853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;

XX
XX MPI; 2005-090672/10.
XX
DR
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 284; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (1) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (1) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (1) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (1) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.

XX Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;

Qy Query Match 1.1%; Score 19; DB 1; Length 21; Best Local Similarity 94.7%; Pred. No. 1.9e+02; Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Db 1712 AGCAGUACCGACGACGACA 1730
19 AGCAGTACCGACGACGACA 1

RESULT 555
ADM27989/C
ID ADM27989 standard; RNA; 21 BP.
XX
AC ADM27989;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #286.
XX
KM gene expression; antiasthmatic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; neotropic; uropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease; incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21 a
FT /tag= a
FT /note= "deoxythymidine nucleotide"

US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.

RESULT 552
ID ADW27914
AC ADW27914 standard; RNA; 21 BP.
XX
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #211.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 211; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.

SO Sequence 21 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGAUGACCAAGACCAC 993
DB 1 GCAGAUGACCAAGACCAC 19
RESULT 553
ID ADW27969/c
AC ADW27969 standard; RNA; 21 BP.
XX
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #266.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 266; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

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FT      /*tag= a
FT      /note= "deoxythymidine nucleotide"
XX
XX      US2005014172-A1.
XX
XX      20-JAN-2005.
XX
XX      11-MAR-2004; 2004US-00798090.
XX
XX      20-FEB-2002; 2002US-0358580P.
XX      11-MAR-2002; 2002US-0363124P.
XX      20-MAY-2002; 2002WO-US015876.
XX      06-JUN-2002; 2002US-0386782P.
XX      29-AUG-2002; 2002US-0406784P.
XX      05-SEP-2002; 2002US-0408378P.
XX      09-SEP-2002; 2002US-0409293P.
XX      15-JAN-2003; 2003US-0440129P.
XX      20-FEB-2003; 2003WO-US005028.
XX      30-APR-2003; 2003US-00427160.
XX      23-MAY-2003; 2003US-00444853.
XX      23-OCT-2003; 2003US-00693059.
XX      24-NOV-2003; 2003US-00720448.
XX      14-JAN-2004; 2004US-00757803.
XX
XX      (RICH/) RICHARDS I.
XX      (MCSW/) MCSWIGGEN J.
XX
XX      Richards I, Mcswiggen J;
XX
XX      WPI; 2005-090672/10.
XX
XX      Novel chemically synthesized double stranded short interfering nucleic
XX      acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX      RNA through RNA interference, useful for treating asthma.
XX
XX      Disclosure; SEQ ID NO 208; 84bp; English.
XX
XX      The invention relates to a chemically synthesized double stranded short
XX      interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX      cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX      where each strand of (I) has 19-23 nucleotides, and does not require the
XX      presence of nucleotides having a 2-hydroxy group for mediating RNA
XX      interference. (I) is useful for treating diseases e.g., asthma, allergic
XX      rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX      vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX      Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX      towards nuclease. Double stranded short interfering nucleic acid molecule
XX      was produced by solid phase oligonucleotide synthesis method. This
XX      sequence represents an example of a siRNA molecule of the invention.
XX
XX      Sequence 21 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 0 Other;
XX
XX      Query Match      1.1%; Score 19; DB 1; Length 21;
XX      Best Local Similarity 100.0%; Pred. No. 1.9e+02;
XX      Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX      21 UACACCTUCGCCUUCUUU 39
XX      |||||
XX      1 UACACCTUCGCCUUCUUU 19
XX
XX      RESULT 551
XX      ADM27998/c
XX      ID      ADM27998 standard; RNA; 21 BP.
XX      AC      ADM27998;
XX      DT      07-APR-2005 (first entry)
XX      DE      Cholinergic receptor muscarinic 3 gene targeted siRNA #295.
XX      KW      gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
```

```
KW      respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW      nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW      cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW      inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW      hypertension; emphysema; irritable bowel syndrome; Alzheimer disease;
KW      incontinence; ss.
XX
XX      Synthetic.
XX
XX      Key      Location/Qualifiers
XX      FT      msc_difference 20..21
XX      FT      /*tag= a
XX      FT      /note= "deoxythymidine nucleotide"
XX
XX      US2005014172-A1.
XX
XX      20-JAN-2005.
XX
XX      11-MAR-2004; 2004US-00798090.
XX
XX      20-FEB-2002; 2002US-0358580P.
XX      11-MAR-2002; 2002US-0363124P.
XX      20-MAY-2002; 2002WO-US015876.
XX      06-JUN-2002; 2002US-0386782P.
XX      29-AUG-2002; 2002US-0406784P.
XX      05-SEP-2002; 2002US-0408378P.
XX      09-SEP-2002; 2002US-0409293P.
XX      15-JAN-2003; 2003US-0440129P.
XX      20-FEB-2003; 2003WO-US005028.
XX      30-APR-2003; 2003US-00427160.
XX      23-MAY-2003; 2003US-00444853.
XX      23-OCT-2003; 2003US-00693059.
XX      24-NOV-2003; 2003US-00720448.
XX      14-JAN-2004; 2004US-00757803.
XX
XX      (RICH/) RICHARDS I.
XX      (MCSW/) MCSWIGGEN J.
XX
XX      Richards I, Mcswiggen J;
XX
XX      WPI; 2005-090672/10.
XX
XX      Novel chemically synthesized double stranded short interfering nucleic
XX      acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX      RNA through RNA interference, useful for treating asthma.
XX
XX      Disclosure; SEQ ID NO 304; 84bp; English.
XX
XX      The invention relates to a chemically synthesized double stranded short
XX      interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX      cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX      where each strand of (I) has 19-23 nucleotides, and does not require the
XX      presence of nucleotides having a 2-hydroxy group for mediating RNA
XX      interference. (I) is useful for treating diseases e.g., asthma, allergic
XX      rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX      vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX      Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX      towards nuclease. Double stranded short interfering nucleic acid molecule
XX      was produced by solid phase oligonucleotide synthesis method. This
XX      sequence represents an example of a siRNA molecule of the invention.
XX
XX      Sequence 21 BP; 4 A; 4 C; 4 G; 2 T; 7 U; 0 Other;
XX
XX      Query Match      1.1%; Score 19; DB 1; Length 21;
XX      Best Local Similarity 78.9%; Pred. No. 1.9e+02;
XX      Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
XX
XX      1011 GAACACAAUGAUGCUGCU 1029
XX      |||||
XX      19 GAACACAAUGAUGCUGCT 1
```

PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX WPI; 2005-090672/10.
 DR
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 299; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 21 BP; 4 A; 4 C; 4 G; 2 T; 7 U; 0 Other;
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 XX
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 78.9%; Pred. No. 1.9e+02; Indels 0; Gaps 0;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 1011 GAACACAUGAUGCUGCU 1029
 DB 19 GAACACATGATGCTGCT 1
 XX
 RESULT 549
 ADM27955/C
 ID ADM27955 standard; RNA; 21 BP.
 XX
 AC ADM27955;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #252.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 XX
 XX Synthetic.
 OS
 XX
 FH Key Location/Qualifiers
 FT misc_difference 20..21 a
 FT /*tag= "a
 FT /note="deoxythymidine nucleotide"
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PP 11-MAR-2004; 2004US-00798090.
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 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR

PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US0050346.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX WPI; 2005-090672/10.
 DR
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 252; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
 XX
 XX
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 94.7%; Pred. No. 1.9e+02; Indels 0; Gaps 0;
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1712 AGCAGUACGACGAGACA 1730
 DB 19 AGCAGTACCAGCAGAGACA 1
 XX
 RESULT 550
 ADM27911
 ID ADM27911 standard; RNA; 21 BP.
 XX
 AC ADM27911;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #208.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 XX
 XX Synthetic.
 OS
 XX
 FH Key Location/Qualifiers
 FT misc_difference 20..21
 FT

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards lowase. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 21 BP; 4 A; 4 C; 4 G; 2 T; 7 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 78.9%; Pred. No. 1.9e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 1011 GAACACAAUAGUAGUCU 1029
 DB 19 GAACACAAUAGUAGUCU 1
 RESULT 547
 ADW27917
 ID ADW27917 standard; RNA; 21 BP.
 XX
 AC ADW27917;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #214.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT misc_difference 20..21
 FT /tag= a
 FT /note= "deoxythymidine nucleotide"
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
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 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 PI Richards I, Mcswigen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS disclosure, SEQ ID NO 214; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 1.9e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1715 AGUACGACGACGACAGUC 1733
 DB 1 AGUACGACGACGACAGUC 19
 RESULT 548
 ADW27993/c
 ID ADW27993 standard; RNA; 21 BP.
 XX
 AC ADW27993;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #290.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT misc_difference 20..21
 FT /tag= a
 FT /note= "deoxythymidine nucleotide"
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR

AC ADW27991;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #288.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 297; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 4 A; 4 C; 4 G; 2 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX Best Local Similarity 78.9%; Pred. No. 1.9e+02;

Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Oy 1011 GAACACACATGAGCTGCTC 1029
DB 19 GAACACACATGAGCTGCTC 1
RESULT 546
ADW27995/c
ID ADW27995 standard; RNA; 21 BP.
XX
XX ADW27995;
AC
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #292.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 301; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic

```

XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX 11-MAR-2002; 2002US-0363124P.
PR
XX 20-MAY-2002; 2002WO-US015876.
PR
XX 06-JUN-2002; 2002US-0386782P.
PR
XX 29-AUG-2002; 2002US-0406784P.
PR
XX 05-SEP-2002; 2002US-0408378P.
PR
XX 09-SEP-2002; 2002US-0409293P.
PR
XX 15-JAN-2003; 2003US-0440129P.
PR
XX 20-FEB-2003; 2003WO-US005028.
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XX 20-FEB-2003; 2003WO-US005346.
PR
XX 30-APR-2003; 2003US-00427160.
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XX 23-MAY-2003; 2003US-00444853.
PR
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
PI
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 218; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;
SQ
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX Best Local Similarity 68.4%; Pred. No. 1.9e+02;
XX Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
OY 317 UCCUCUUAAGCCUGCCUG 335
XX :|||:|||||:|||||:
Db 19 TCCTCTTAGCCTGCGCCTG 1
XX
XX RESULT 544
XX ADMW27923/C
XX ID ADMW27923 standard; RNA; 21 BP.
XX
XX AC ADMW27923;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #220.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

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XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX misc_difference 20..21
XX FT /*tag= a
XX FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX
XX 20-MAY-2002; 2002WO-US015876.
XX
XX 06-JUN-2002; 2002US-0386782P.
XX
XX 29-AUG-2002; 2002US-0406784P.
XX
XX 05-SEP-2002; 2002US-0408378P.
XX
XX 09-SEP-2002; 2002US-0409293P.
XX
XX 15-JAN-2003; 2003US-0440129P.
XX
XX 20-FEB-2003; 2003WO-US005028.
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XX 20-FEB-2003; 2003WO-US005346.
XX
XX 30-APR-2003; 2003US-00427160.
XX
XX 23-MAY-2003; 2003US-00444853.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
PI
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 220; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
SQ
XX
XX Query Match 1.1%; Score 19; DB 1; Length 21;
XX Best Local Similarity 94.7%; Pred. No. 1.9e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 1712 AGCAGUACGACGACGACA 1730
XX |||||:|||||:|||||:
Db 19 AGCAGTACGACGACGACA 1
XX
XX RESULT 545
XX ADMW27991/C
XX ID ADMW27991 standard; RNA; 21 BP.
XX

```

PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 250; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.9e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUAGCCGCGCCUG 335
Db :|||:|||||:|||||:
19 TCCTCTTAAGCCTGCGCTG 1

RESULT 542
ADW27971/c
ID ADW27971 standard; RNA; 21 BP.
XX
AC ADW27971;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #268.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note="deoxythymidine nucleotide"
XX
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX
PR 20-FEB-2002; 2002US-0358580P.
XX
PR 11-MAR-2002; 2002US-0363124P.
XX
PR 20-MAY-2002; 2002WO-US015876.
XX
PR 06-JUN-2002; 2002US-0386782P.
XX
PR 29-AUG-2002; 2002US-0406784P.
XX
PR 05-SEP-2002; 2002US-0408378P.
XX
XX

PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 268; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.9e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAGACA 1730
Db :||||:|||||:|||||:
19 AGCAGTACGACGAGACA 1

RESULT 543
ADW27921/c
ID ADW27921 standard; RNA; 21 BP.
XX
AC ADW27921;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #218.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note="deoxythymidine nucleotide"
XX
XX
PN US2005014172-A1.
XX
XX

CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SEQ Sequence 19 BP; 5 A; 4 C; 6 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1677 GCGUGCGAGUGUGACAA 1695
DB 1 GCGUGCGAGUGUGACAA 19

RESULT 538
AEA02213
ID AEA02213 standard; RNA; 19 BP.
XX
AC AEA02213;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 97.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micrurition disorder; cholinergic receptor muscarinic 3; CHR3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 97; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHR3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,

CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SEQ Sequence 19 BP; 4 A; 4 C; 4 G; 0 T; 7 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1731 GUGGUCAUUUUUCACAG 1749
DB 1 GUGGUCAUUUUUCACAG 19

RESULT 539
AEA02281/c
ID AEA02281 standard; RNA; 19 BP.
XX
AC AEA02281;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 165.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micrurition disorder; cholinergic receptor muscarinic 3; CHR3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 165; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHR3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 9 C; 1 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1119 UCACGACGACCAUCCUCCAC 1137
Db 1 UCACGACGACCAUCCUCCAC 19
RESULT 536
AEA02207
ID AEA02207 standard; RNA; 19 BP.
AC AEA02207;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 91.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 91; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 5 C; 6 G; 0 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1623 CGUGUGCUAUGCUCUGUC 1641
Db 1 CGUGUGCUAUGCUCUGUC 19
RESULT 537
AEA02210
ID AEA02210 standard; RNA; 19 BP.
AC AEA02210;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 94.
XX
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
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XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 94; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference

PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 39; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 6 C; 2 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 687 CACCAUACUUCUGGACA 705
Db 1 CACCAUACUUCUGGACA 19
|||||
RESULT 534
AEA02167
ID AEA02167 standard; RNA; 19 BP.
XX
AC AEA02167;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 51.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

XX
PS Claim 33; SEQ ID NO 51; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 7 A; 5 C; 6 G; 0 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 903 ACGCUCACACAGAGAGAG 921
Db 1 ACGCUCACACAGAGAGAG 19
|||||
RESULT 535
AEA02179
ID AEA02179 standard; RNA; 19 BP.
XX
AC AEA02179;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 63.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PS Claim 33; SEQ ID NO 63; 184bp; English.

DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 29; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 8 C; 5 G; 0 T; 2 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 507 CAUCACGAGCGCCGUCACG 525
Db 1 CAUCACGAGCGCCGUCACG 19
RESULT 532
AEA02150
ID AEA02150 standard; RNA; 19 BP.
AC AEA02150;
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 34.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
PN
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00798090.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX Richards I, Macswiggen J;
PI
XX WPI; 2005-356237/36.
DR
XX

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 34; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 6 C; 5 G; 0 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 597 UUGGCGUCCGCGCAUCUG 615
Db 1 UUGGCGUCCGCGCAUCUG 19
RESULT 533
AEA02155
ID AEA02155 standard; RNA; 19 BP.
XX
XX AEA02155;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 39.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
PN
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00798090.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX Richards I, Macswiggen J;
PI
XX WPI; 2005-356237/36.
DR
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing

PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI, 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 164; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 6 C; 5 G; 0 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1155 AUCGACACCGCAGGUG 1173
DB 19 ATCGACACCTGCAGGTG 1
XX
RESULT 530
AEA02289/C
ID AEA02289 standard; RNA; 19 BP.
XX
AC AEA02289;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 173.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX

PI Richards I, Macswiggen J;
XX
DR WPI, 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 173; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 3 C; 7 G; 0 T; 4 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1317 GACTUCGACGUCACUCC 1335
DB 19 GACTCTGACGTCACTCC 1
XX
RESULT 531
AEA02145
ID AEA02145 standard; RNA; 19 BP.
XX
AC AEA02145;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 29.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX

PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004US-00826966.
PR 24-MAY-2004; 2004US-00919866.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) siRNA THERAPEUTICS INC.
XX
XX
XX Richards I, Macswigen J;
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 56; 184pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 5 A; 4 C; 7 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 993 CAGCAGCAGGACGAGG 1011
DB 1 CAGCAGCAGGACGAGG 19
RESULT 526
AEA02223/c
ID AEA02223 standard; RNA; 19 BP.
XX
XX AEA02223;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 107.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004US-00826966.
PR 24-MAY-2004; 2004US-00919866.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) siRNA THERAPEUTICS INC.
XX
XX
XX Richards I, Macswigen J;
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 107; 184pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 5 A; 5 C; 5 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 129 UCGAGCAGCGGCAUUC 147
DB 19 TCGAGCAGCTGCGCAATTC 1
RESULT 527
AEA02253/c
ID AEA02253 standard; RNA; 19 BP.
XX
XX AEA02253;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 137.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.

Pf	20-AUG-2004; 2004WO-US027367.
PX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
PX	
PA	(SIRM-) SIRNA THERAPEUTICS INC.
PX	
PI	Richards I, Macswigen J;
PX	
DR	WPI; 2005-356237/36.
PX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
Pt	
PS	Claim 33; SEQ ID NO 25; 184pp; English.
PX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
SQ	
Xq	Sequence 19 BP; 4 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
	Query March 1.1%; Score 19; DB 1; Length 19;
	Best Local Similarity 100.0%; Pred. No. 1.6e+02;
	Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy	
	435 UGCCAUGACUACGUAACC 453
Dd	1 UGCCAUGACUACGUAGCC 19
RESULT 523	
ID	AEA02156
XX	AEA02156 standard; RNA; 19 BP.
XX	
AC	AEA02156;
XX	
DT	28-JUN-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 40.
XX	
KM	Respiratory-Gen.; Antiasthmatic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Uropathic;
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW	multitumor disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM	siRNA; RNA interference; gene silencing; short interfering RNA.
XX	
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	

OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX PS Claim 33; SEQ ID NO 178; 184bp; English.
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 2 A; 5 C; 4 G; 0 T; 8 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1407 GAAGACCAGAGUCAGAU 1425
DB 19 GAAGACCAGAGTCGATC 1
RESULT 520
AEA02309/c
ID AEA02309 standard; RNA; 19 BP.
XX AC AEA02309;
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 193.
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX OS WO2005045040-A2.

PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX PS Claim 33; SEQ ID NO 193; 184bp; English.
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 4 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1677 GCUGUCCCGUGUGACAA 1695
DB 19 GCUGUCCCGAGTGTGACAAA 1
RESULT 521
AEA02132
ID AEA02132 standard; RNA; 19 BP.
XX AC AEA02132;
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 16.
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX OS WO2005045040-A2.

KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 147; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 3 A; 6 C; 6 G; 0 T; 4 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 84.2%; Pred. No. 1.6e+02;
XX Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 849 CACGGGACAGUUCUGAGGC 867
XX |||||:|||||
XX 19 CACGGGACAGTCTCGAGC 1
XX
XX Db
XX
XX RESULT 518
XX AEA02283/C
XX ID AEA02283 standard; RNA; 19 BP.
XX
XX AC AEA02283;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 167.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX

KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PA Richards I, Macswigen J;
XX PI WPI; 2005-356237/36.
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 167; 184pp; English.
XX
XX XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 1 A; 6 C; 5 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 94.7%; Pred. No. 1.6e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1209 GAAGCCGACAGCUCGAG 1227
XX |||||:|||||
XX 19 GAAGCCGACAGCTGCAG 1
XX
XX Db
XX
XX RESULT 519
XX AEA02294/C
XX ID AEA02294 standard; RNA; 19 BP.
XX
XX AC AEA02294;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 178.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 XX
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macewiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 109; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 3 A; 5 C; 7 G; 0 T; 4 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 84.2%; Pred. No. 1.6e+02;
 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 165 CACCGAUGACCCUUCUGGA 183
 DB 19 CACCGATGACCTCTGGGA 1
 XX
 RESULT 516
 AEA02231/C
 ID AEA02231 standard; RNA; 19 BP.
 XX
 AC AEA02231;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 115.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;

KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 XX
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macewiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 115; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 5 A; 4 C; 3 G; 0 T; 7 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 273 GUCAUUUAAGUCUACAAG 291
 DB 19 GTCATTTAAGTCAACAG 1
 XX
 RESULT 517
 AEA02263/C
 ID AEA02263 standard; RNA; 19 BP.
 XX
 AC AEA02263;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 147.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;

XX DT 28-JUL-2005 (first entry)
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 60.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX
XX Claim 33; SEQ ID NO 60; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 5 C; 7 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1065 GGACAUUGGCTCCGAGCG 1083
DB 1 GGACAUUGGCTCCGAGACG 19
RESULT 514
AEA02185
ID AEA02185 standard; RNA; 19 BP.
XX
AC AEA02185;
XX
XX 28-JUL-2005 (first entry)
DT

XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 69.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX
XX Claim 33; SEQ ID NO 69; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 5 C; 8 G; 0 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1227 GGCCGAGAGCGGUGAC 1245
DB 1 GGCCGAGAGCGGUGAC 19
RESULT 515
AEA02225/c
ID AEA02225 standard; RNA; 19 BP.
XX
AC AEA02225;
XX
XX 28-JUL-2005 (first entry)
DT
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 109.
DE

AEA02163
ID AEA02163 standard; RNA; 19 BP.
AC AEA02163;
XX
XX 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 47.
XX
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neutroprotective; Noctropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 47; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 6 A; 7 C; 2 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 831 AGAAACUUUGCCACCCC 849
DB 1 AGAAACUUUGCCACCCC 19
RESULT 512
AEA02168
ID AEA02168 standard; RNA; 19 BP.

XX
XX AEA02168;
AC
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 52.
XX
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neutroprotective; Noctropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 52; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 2 A; 7 C; 5 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 921 GUUUGCCGCGUCCACUUC 939
DB 1 GUUUGCCGCGUCCACUUC 19
RESULT 513
AEA02176
ID AEA02176 standard; RNA; 19 BP.
XX
XX AEA02176;

Db 19 CCTGCGCTGNGCCGATCTG 1

RESULT 509
ID AEA02275/c
ID AEA02275 standard; RNA; 19 BP.

XX AEA02275;
AC
XX
XX 28-JUL-2005 (first entry)
DE
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 159.
XX
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX
XX Richards I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 159; 184pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 3 A; 7 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1065 GACAUUGGCTCCGAGACG 1083
|||:|||||
Db 19 GGACATTGGCTCCGAGACG 1

RESULT 510
ID AEA02159
ID AEA02159 standard; RNA; 19 BP.

XX AEA02159;
AC
XX
XX 28-JUL-2005 (first entry)
DE
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 43.
XX
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mcturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX
XX Richards I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 43; 184pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 9 A; 2 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 759 GAUCUUAAGGAACUGAA 777
|||||
Db 1 GAUCUUAAGGAACUGAA 19

RESULT 511

Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

327 CCUGGCCUGGCCGAUCUG 345

SEQ Sequence 19 BP; 3 A; 4 C; 4 G; 0 T; 8 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1533 UCUGUGAACACCCUUGU 1551
|||||
Dd 1 UCUGUGAACACCCUUGU 19
RESULT 505
AEA02212
ID AEA02212 standard; RNA; 19 BP.
XX
AC AEA02212;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 96.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutropoietic; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 96; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 7 A; 5 C; 6 G; 0 T; 1 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1713 GCAGUACGACGACAGACG 1731
|||||
Dd 1 GCAGUACGACGACAGACG 19
RESULT 506
AEA02214
ID AEA02214 standard; RNA; 19 BP.
XX
AC AEA02214;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 98.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutropoietic; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 98; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 9 C; 7 G; 0 T; 0 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;

CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 7 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1083 GAGAGCAUCUACUCCAUCC 1101
Db 1 GAGAGCAUCUACUCCAUCC 19
RESULT 503
AEA02191
ID AEA02191 standard; RNA; 19 BP.
XX
AC AEA02191;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 75.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 75; 184dp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAI). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The

CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 4 C; 7 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1335 CUACUGGCGUAGAAGCAGC 1353
Db 1 CUACUGGCGUAGAAGCAGC 19
RESULT 504
AEA02202
ID AEA02202 standard; RNA; 19 BP.
XX
AC AEA02202;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 86.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 86; 184dp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAI). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.

CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SEQ Sequence 19 BP; 5 A; 7 C; 1 G; 0 T; 6 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 CAACUACUCCUCUUAAGC 327
Db 1 CAACUACUCCUCUUAAGC 19
|||||

RESULT 501
AEA02169
ID AEA02169 standard; RNA; 19 BP.
XX
XX AEA02169;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 53.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 53; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are

CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SEQ Sequence 19 BP; 6 A; 6 C; 4 G; 0 T; 3 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 939 CUGGUCACACCAAGAGC 957
Db 1 CUGGUCACACCAAGAGC 19
|||||

RESULT 502
AEA02177
ID AEA02177 standard; RNA; 19 BP.
XX
XX AEA02177;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 61.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 61; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary

PS Claim 33; SEQ ID NO 180; 184bp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX
SQ Sequence 19 BP; 3 A; 7 C; 4 G; 0 T; 5 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1443 GUCCUGGUCAGAGAG 1461
DB 19 GTCCTGTCTCAGAGAG 1

RESULT 499
AEA02124
ID AEA02124 standard; RNA; 19 BP.

AC AEA02124;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 8.

XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX PD 19-MAY-2005.

XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.

XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 8; 184bp; English.
XX

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX
SQ Sequence 19 BP; 4 A; 5 C; 5 G; 0 T; 5 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 129 UCGAGCAGCGGCAUUC 147
DB 1 UCGAGCAGCGGCAUUC 19

RESULT 500
AEA02134
ID AEA02134 standard; RNA; 19 BP.

AC AEA02134;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 18.

XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX PD 19-MAY-2005.

XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.

XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 18; 184bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a

PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 146; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 2 C; 7 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 831 AGAAAAACUUGUCCACCCC 849
DB 19 AGMAAACTTGTCCACCCC 1
RESULT 497
AEA02276/c
ID AEA02276 standard; RNA; 19 BP.
XX
AC AEA02276;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 160.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
PI Richards I, Macswigen J;
XX
XX MPI; 2005-356237/36.
DR
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary

PT disease.
XX
XX Claim 33; SEQ ID NO 160; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 3 C; 7 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1083 GAGAGCCAUACUCCCAUC 1101
DB 19 GAGAGCCATCTACTCCATC 1
RESULT 498
AEA02296/c
ID AEA02296 standard; RNA; 19 BP.
XX
AC AEA02296;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 160.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
PI Richards I, Macswigen J;
XX
XX MPI; 2005-356237/36.
DR
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX

XX WPI; 2005-356237/36.
DR
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 125; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 4 C; 5 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 453 CAGCAUAGCCUCUGUAUG 471
DB 19 CAGCAATGCTCTGTATG 1
RESULT 495
AEA02254/c
ID AEA02254 standard; RNA; 19 BP.
XX
AC AEA02254;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 138.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) siRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.

XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 138; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 2 C; 6 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 687 CACCAUACUUVUGGCACA 705
DB 19 CACCATCTCTTTGGCACA 1
RESULT 496
AEA02262/c
ID AEA02262 standard; RNA; 19 BP.
XX
AC AEA02262;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 146.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) siRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a

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XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
PI Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 102; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 4 A; 1 C; 9 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 39 UCCAAACAUCCAGCUCGCC 57
Db :|||||:|||||:|||||:
19 TCCAAACATCAGCTCCTCC 1
RESULT 493
AEA02228/C
ID AEA02228 standard; RNA; 19 BP.
XX
XX AEA02228;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 112.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00826966.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
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XX Richards I, Macswigen J;
PI
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 112; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 4 A; 5 C; 7 G; 0 T; 3 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 219 CUUACGGGCAUCCUGGCC 237
Db :|||||:|||||:|||||:
19 CTTAACGGGCACTCTGACC 1
RESULT 494
AEA02241/C
ID AEA02241 standard; RNA; 19 BP.
XX
XX AEA02241;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 125.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00798090.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
XX Richards I, Macswigen J;
PI
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PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
DR New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 24; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 6 C; 6 G; 0 T; 6 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 417 GGCCTUGAACCTCCGCGCT 435
DB 1 GGCCTUGAACCTCCGCGCT 19
RESULT 491
AEA02188
ID AEA02188 standard; RNA; 19 BP.
XX
AC AEA02188;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 72.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
DR New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 72; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 7 C; 3 G; 0 T; 4 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1281 UCCCAUCCAGCAGAGUCA 1299
DB 1 UCCCAUCCAGCAGAGUCA 19
RESULT 492
AEA02218/c
ID AEA02218 standard; RNA; 19 BP.
XX
AC AEA02218;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 102.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.

PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
PA (SIRN-) SIRNA THERAPEUTICS INC.
PI Richards I, Macswigen J;
DR WPI; 2005-356237/36.
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PS Claim 33; SEQ ID NO 1; 184pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 7 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 GACCTUGCACAUAACAGU 21
Db 1 GACCTUGCACAUAACAGU 19
RESULT 489
AEA02122
ID AEA02122 standard; RNA; 19 BP.
XX
XX AEA02122;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 6.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX WO2005045040-A2.
PD
XX 19-MAY-2005.
PF
XX 20-AUG-2004; 2004WO-US027367.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR

PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
PA (SIRN-) SIRNA THERAPEUTICS INC.
PI Richards I, Macswigen J;
DR WPI; 2005-356237/36.
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PS Claim 33; SEQ ID NO 6; 184pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 93 GGGACCGUCACUUAUUC 111
Db 1 GGGACCGUCACUUAUUC 19
RESULT 490
AEA02140
ID AEA02140 standard; RNA; 19 BP.
XX
XX AEA02140;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 24.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX WO2005045040-A2.
PD
XX 19-MAY-2005.
PF
XX 20-AUG-2004; 2004WO-US027367.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR

XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-00757803.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 144; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 5 A; 5 C; 7 G; 0 T; 2 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 795 UGCGGCGGCAAGCCUCCU 813
DB 19 TCGTGGCTGCGAAGCCTCT 1
RESULT 487
AEA02292/c
-ID AEA02292 standard; RNA; 19 BP.
XX
XX AEA02292;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 176.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX OS
XX WO2005045040-A2.
XX PN
XX 19-MAY-2005.
XX PD
XX 20-AUG-2004; 2004WO-US027367.
XX PF
XX 23-OCT-2003; 2003US-00693059.
XX PR

PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 176; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 4 A; 4 C; 6 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1371 CUCGAGGAAGCCACUCUG 1389
DB 19 CTTCAAGGAAGCCACTCTG 1
RESULT 488
AEA02117
ID AEA02117 standard; RNA; 19 BP.
XX
XX AEA02117;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 1.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX OS
XX WO2005045040-A2.
XX PN
XX 19-MAY-2005.
XX PD
XX 20-AUG-2004; 2004WO-US027367.
XX PF
XX 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.

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XX 19-MAY-2005.
PD 20-AUG-2004; 2004MO-US027367.
XX
PF 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004MO-US013456.
PR 24-MAY-2004; 2004MO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
PI WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 134; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 9 A; 4 C; 3 G; 0 T; 3 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 1.6e+02;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;
QY 615 GUUCUGGCAUAUCUUGU 633
DB 19 GTTCTGGCAATCTTGT 1
RESULT 485
AEA02257/c
ID AEA02257 standard; RNA; 19 BP.
XX
XX AEA02257;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 141.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
PD
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XX 20-AUG-2004; 2004MO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004MO-US013456.
PR 24-MAY-2004; 2004MO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
PI WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 141; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 7 A; 5 C; 2 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.6e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
QY 741 GACUATUUUUAUCUGAGG 759
DB 19 GACTATTATTACTGAGG 1
RESULT 486
AEA02260/c
ID AEA02260 standard; RNA; 19 BP.
XX
XX AEA02260;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 144.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004MO-US027367.
XX
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XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richarde I, Macswigen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PS disease.
XX PS Claim 33; SEQ ID NO 123; 184bp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 6 A; 6 C; 6 G; 0 T; 1 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 68.4%; Pred. No. 1.6e+02;
XX Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
OY 417 GGCCTGACCTCTGCTT 1
DB 19 GGCCTGACCTCTGCTT 1
RESULT 483
AEA02246/c
ID AEA02246 standard; RNA; 19 BP.
XX AC AEA02246;
XX XX
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 130.
XX KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX KW Neutroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
XX KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN

XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richarde I, Macswigen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PS disease.
XX PS Claim 33; SEQ ID NO 130; 184bp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 2 A; 7 C; 3 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 89.5%; Pred. No. 1.6e+02;
XX Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 543 AACAAAGAGCGCGUGUG 561
DB 19 AACAAAGAGCGCGUGUG 1
RESULT 484
AEA02250/c
ID AEA02250 standard; RNA; 19 BP.
XX AC AEA02250;
XX XX
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 134.
XX KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX KW Neutroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
XX KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.

KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004MO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004MO-US013456.
XX PR 24-MAY-2004; 2004MO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 88; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 4 A; 4 C; 5 G; 0 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1569 AACCUUUGCAUUCUGGC 1587
DB 1 AACCUUUGCAUUCUGGC 19
AAACCUUUGCAUUCUGGC
RESULT 481
AEA02208
ID AEA02208 standard; RNA; 19 BP.
XX
XX AC AEA02208;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 92.
XX
XX KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KM Neuroprotective; Nootropic; Uropathic;
XX KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;

KM microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004MO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004MO-US013456.
XX PR 24-MAY-2004; 2004MO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 92; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 10 A; 6 C; 1 G; 0 T; 2 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1641 CAACAAACAUUCGAACC 1659
DB 1 CAACAAACAUUCGAACC 19
CAACAAACAUUCGAACC
RESULT 482
AEA02239/c
ID AEA02239 standard; RNA; 19 BP.
XX
XX AC AEA02239;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 123.
XX
XX KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KM Neuroprotective; Nootropic; Uropathic;
XX KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KM microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KM siRNA; RNA interference; gene silencing; short interfering RNA.

DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 65.
XX	
KM	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM	Neuroprotective; Nootropic; Utopathic;
KM	chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
KW	micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM	siRNA; RNA interference; gene silencing; short interfering RNA.
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798030.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
P1	Richards I, Macawiggen J;
XX	
DR	WPI; 2005-356237/36.
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
XX	
PS	Claim 33; SEQ ID NO 65; 184bp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SQ	Sequence 19 BP; 5 A; 5 C; 6 G; 0 T; 3 U; 0 Other;
XX	
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	100.0%; Pred.No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
OY	1155 AUUCGACAACCGCAGGUG 1173 1 AUUCGACAACCGCAGGUG 19
DB	
RESULT 479	
AEA02201	
ID	AEA02201 standard; RNA; 19 BP.
XX	
AC	AEA02201;
XX	
DT	28-JUL-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 85.
XX	

KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Uropathic;
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW	mitochondrial disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW	siRNA; RNA interference; gene silencing; short interfering RNA.
XX	
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00729448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-05434807.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
PI	Richards I, Macswigen J;
XX	
PI	WPI, 2005-356237/36.
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX	disease.
XX	
PS	Claim 33; SEQ ID NO 85; 184bp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SQ	Sequence 19 BP; 6 A; 6 C; 2 G; 0 T; 5 U; 0 Other;
XX	
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
07	1515 CCGAUCACACUCAUGGU 1533
DB	1 CCGAUCACACUCAUGGU 19
XX	
RESULT 480	
AEA02204	
ID	AEA02204 standard; RNA; 19 BP.
XX	
AC	AEA02204;
XX	
DT	28-JUL-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 88.
XX	
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Uropathic;

AC AEA02119;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 3.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 3; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 9 C; 1 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 39 UCCAAACATCAGCUCUCC 57
DB 1 UCCAAACATCAGCUCUCC 19
RESULT 477
AEA02130
ID AEA02130 standard; RNA; 19 BP.
XX
AC AEA02130;
XX

DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 14.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 14; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 6 C; 5 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 237 CUUGUGACCAUCCGCGC 255
DB 1 CUUGUGACCAUCCGCGC 19
RESULT 478
AEA02181
ID AEA02181 standard; RNA; 19 BP.
XX
AC AEA02181;
XX
DT 28-JUL-2005 (first entry)
XX


```
RESULT 474
AEA02305/c
ID AEA02305 standard; RNA; 19 BP.
XX
XX
AC AEA02305;
XX
XX
DT 28-JUL-2005 (first entry)
XX
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 189.
XX
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX
KW Neutroprotective; Nootropic; Uropathic;
XX
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX
KW micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
XX
20-AUG-2004; 2004WO-US027367.
XX
PF 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richarde I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
XX
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX
PT disease.
XX
PS Claim 33; SEQ ID NO 189; 184bp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 1 A; 3 C; 9 G; 0 T; 6 U; 0 Other;
XX
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 1605 CAACAGCACCUGAACCC 1623
DB 19 CAACAGCACCUGAACCC 1
XX
```

RESULT 475
AEA02118

```
ID AEA02118 standard; RNA; 19 BP.
XX
XX
AC AEA02118;
XX
XX
DT 28-JUL-2005 (first entry)
XX
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 2.
XX
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX
KW Neutroprotective; Nootropic; Uropathic;
XX
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX
KW micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
XX
20-AUG-2004; 2004WO-US027367.
XX
PF 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richarde I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
XX
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX
PT disease.
XX
PS Claim 33; SEQ ID NO 2; 184bp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 3 A; 6 C; 2 G; 0 T; 8 U; 0 Other;
XX
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 21 UACACCTUCGCCUUGUUU 39
DB 1 UACACCTUCGCCUUGUUU 19
XX
XX
RESULT 476
AEA02119
ID AEA02119 standard; RNA; 19 BP.
XX
```

Db 19 TGCATTCAGTACGTAGCC 1

RESULT 472
AEA02255/C
ID AEA02255 standard, RNA, 19 BP.
XX
XX AEA02255;
XX
XX 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 139.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826956.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI, 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 139, 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siNA.
XX
XX Sequence 19 BP; 8 A; 3 C; 5 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 57.9%; Pred. No. 1.6e+02;
XX Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

705 AGCCAUCCGUCGUUUUUU 723

DB 19 AGCATTCAGTACGTAT 1

Query Match	Best Local Similarity	1.1%: Score 19; DB 1; Length 19;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;		
939 CUGGUCACCAACCAAGAC 957		
19 CTGGTTCACCAACCAAGAC 1		

Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 111 CGGACGCUACAUGUUCU 129

DB 19 CGGACGCTACAAATGTTCT 1

RESULT 470

AE02232/c
ID AEA02232 standard; RNA; 19 BP.

AC AEA02232;

DT 28-JUL-2005 (first entry)

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 116.

KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;

KW Neuroprotective; Nootropic; Uropathic;

KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;

KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;

KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

KW siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.

PN WO2005045040-A2.

PD 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727803.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004US-00826966.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

PR 17-AUG-2004; 2004US-00919866.

PA (SIRN-) SIRNA THERAPEUTICS INC.

PI Richards I, Macswigen J;

DR WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a

PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing

PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary

PT disease.

PS Claim 33; SEQ ID NO 116; 184pp; English.

XX The invention relates to a chemically synthesized double stranded short

XX interfering nucleic acid (siNA) molecule that directs cleavage of a

XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference

XX (RNAi). The siNA molecule, compounds, compositions, and methods are

XX useful for treating or preventing respiratory and pulmonary diseases,

XX disorders, and/or conditions, including chronic obstructive pulmonary

XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,

XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The

XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX Sequence 19 BP; 2 A; 6 C; 5 G; 0 T; 6 U; 0 Other;

XX Query Match 1.1%; Score 19; DB 1; Length 19;

XX Best Local Similarity 89.5%; Pred. No. 1.6e+02;

XX Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 291 GCACGUGAGACGGUAC 309

DB 19 GCACGUGAGACGGUAC 1

RESULT 471

AE02240/c
ID AEA02240 standard; RNA; 19 BP.

AC AEA02240;

DT 28-JUL-2005 (first entry)

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 124.

KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;

KW Neuroprotective; Nootropic; Uropathic;

KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;

KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;

KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

KW siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.

PN WO2005045040-A2.

PD 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727803.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004US-00826966.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

PR 17-AUG-2004; 2004US-00919866.

PA (SIRN-) SIRNA THERAPEUTICS INC.

PI Richards I, Macswigen J;

DR WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a

PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing

PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary

PT disease.

PS Claim 33; SEQ ID NO 124; 184pp; English.

XX The invention relates to a chemically synthesized double stranded short

XX interfering nucleic acid (siNA) molecule that directs cleavage of a

XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference

XX (RNAi). The siNA molecule, compounds, compositions, and methods are

XX useful for treating or preventing respiratory and pulmonary diseases,

XX disorders, and/or conditions, including chronic obstructive pulmonary

XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,

XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The

XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX Sequence 19 BP; 5 A; 4 C; 6 G; 0 T; 4 U; 0 Other;

XX Query Match 1.1%; Score 19; DB 1; Length 19;

XX Best Local Similarity 73.7%; Pred. No. 1.6e+02;

XX Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

XX QY 435 UGCGAUGACGUGACC 453

XX SQ Sequence 19 BP; 4 A; 1 C; 10 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1191 GAUGGUGACUUGGAGAGG 1209
Db 1 GAUGGUGACUUGGAGAGG 19
RESULT 468
AEA02203
ID AEA02203 standard; RNA; 19 BP.
XX AC AEA02203;
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 87.
XX KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KM Neuroprotective; Nootropic; Uropathic;
XX KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 87; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 7 A; 6 C; 3 G; 0 T; 3 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1551 UGACAGCUGCAUACCCCAA 1569
Db 1 UGACAGCUGCAUACCCCAA 19
RESULT 469
AEA02222/c
ID AEA02222 standard; RNA; 19 BP.
XX AC AEA02222;
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 106.
XX KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KM Neuroprotective; Nootropic; Uropathic;
XX KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 106; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 6 A; 4 C; 5 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;

CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX SEQ Sequence 19 BP; 6 A; 3 C; 6 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 633 UGGAAGAGACUGGCCU 651

Db 1 UGGAAGAGACUGGCCU 19

RESULT 466

AEA02170
ID AEA02170 standard; RNA; 19 BP.

XX AEA02170;

DT 28-JUL-2005 (first entry)

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 54.

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.

PN WO2005045040-A2.

XX 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

XX 23-OCT-2003; 2003US-00693059.

XX 24-NOV-2003; 2003US-00720448.

XX 03-DEC-2003; 2003US-00727780.

XX 14-JAN-2004; 2004US-00757803.

XX 10-FEB-2004; 2004US-0543480P.

XX 13-FEB-2004; 2004US-00780447.

XX 11-MAR-2004; 2004US-00798090.

XX 16-APR-2004; 2004US-00826966.

XX 30-APR-2004; 2004WO-US013456.

XX 24-MAY-2004; 2004WO-US016390.

XX 17-AUG-2004; 2004US-00919866.

(SIRN-) SIRNA THERAPEUTICS INC.

PA Richards I, Macswiggen J;

XX WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

PS Claim 33; SEQ ID NO 54; 184bp; English.

XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,

CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX SEQ Sequence 19 BP; 5 A; 7 C; 5 G; 0 T; 2 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 957 CUGAACCACGACUCCGAG 975

Db 1 CUGAACCACGACUCCGAG 19

RESULT 467

AEA02183
ID AEA02183 standard; RNA; 19 BP.

XX AEA02183;

DT 28-JUL-2005 (first entry)

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 67.

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.

PN WO2005045040-A2.

XX 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

XX 23-OCT-2003; 2003US-00693059.

XX 24-NOV-2003; 2003US-00720448.

XX 03-DEC-2003; 2003US-00727780.

XX 14-JAN-2004; 2004US-00757803.

XX 10-FEB-2004; 2004US-0543480P.

XX 13-FEB-2004; 2004US-00780447.

XX 11-MAR-2004; 2004US-00798090.

XX 16-APR-2004; 2004US-00826966.

XX 30-APR-2004; 2004WO-US013456.

XX 24-MAY-2004; 2004WO-US016390.

XX 17-AUG-2004; 2004US-00919866.

(SIRN-) SIRNA THERAPEUTICS INC.

PA Richards I, Macswiggen J;

XX WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

PS Claim 33; SEQ ID NO 67; 184bp; English.

XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.

CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 7 C; 6 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 327 CCUGGCCUGGCCGCAUCUG 345
DB 1 CCUGGCCUGGCCGCAUCUG 19
RESULT 464
AEA02147
ID AEA02147 standard; RNA; 19 BP.
XX
AC AEA02147;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 31.
XX
KM Respiratory-Gen.; Antihasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mucritition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 31; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference

CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 7 A; 3 C; 7 G; 0 T; 2 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 543 AACAAAGAGAGCCGCGUGUG 561
DB 1 AACAAAGAGAGCCGCGUGUG 19
RESULT 465
AEA02152
ID AEA02152 standard; RNA; 19 BP.
XX
AC AEA02152;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 36.
XX
KM Respiratory-Gen.; Antihasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mucritition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 36; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,

XX	Claim 33; SEQ ID NO 185; 184pp; English.
PS	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholenergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SQ	Sequence 19 BP; 8 A; 4 C; 4 G; 0 T; 3 U; 0 Other;
OY	
Dd	1533 UCUGGUGAACACCUUUUGU 1551 ::: 19 TCTGTGAACACTTTTGT 1
RESULT 462	
AEAO2310/C	
ID	AEAO2310 standard; RNA; 19 BP.
XX	
AC	AEA02310;
DX	
DT	28-JUL-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 194.
XX	
KW	Respiratory-Gen.; Asthmatic; Antiasthmatic; Antiallergic; Antiinflammatory; Neuroprotective; Nootropic; utropathic; Chronic obstructive pulmonary disease; asthma; allergic rhinitis; chronic obstructive pulmonary disease; allergy; cystic fibrosis; alzheimer's disease; sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease; micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss; siRNA; RNA interference; gene silencing; short interfering RNA.
KM	
KW	Synthetic.
OS	
XX	
FN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PP	20-AUG-2004; 2004MO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004MO-US013456.
PR	24-MAY-2004; 2004MO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
PI	Richards I, Macswiggen J;
XX	
DR	WPI, 2005-356237/36.
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholenergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX	disease.
XX	
PS	Claim 33; SEQ ID NO 194; 184pp; English.

XX	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholestergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compound, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
XX	Sequence 19 BP; 0 A; 6 C; 3 G; 0 T; 10 U; 0 Other;
QY	
Db	1695 AAAAAAGAGCGCGCAAGCAG 1713
	19 AAAAAAGAGCGCGCAAGCAG 1
RESULT 463	
AEAO2135	
ID	AEAO2135 standard; RNA; 19 BP.
XX	
AC	AEA02135;
XX	
DT	28-JUL-2005 (first entry)
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 19.
XX	
XX	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX	Neuroprotective; Nootropic; Uropathic;
KW	Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW	micritium disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX	siRNA; RNA interference; gene silencing; short interfering RNA.
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
XX	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00722780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543460P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
XX	(SIRN-) SIRNA THERAPEUTICS INC.
PA	
XX	
PI	Richards I, Macawiggen J;
XX	
XX	WPI, 2005-356237/36.
DR	
XX	
XX	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholestergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
XX	
PS	Claim 33; SEQ ID NO 19; 184pp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short

[illegible]

PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PS Claim 33; SEQ ID NO 158; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 2 A; 6 C; 8 G; 0 T; 3 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 1047 CGCCUCCUCCGACGAGAG 1065
DB 19 CGCTCTCTCCGACGAGAG 1
XX
RESULT 458
AEA02282/c
ID AEA02282 standard; RNA; 19 BP.
XX
AC AEA02282;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 166.
XX
XX Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX PI
XX

DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PS Claim 33; SEQ ID NO 166; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 10 C; 1 G; 0 T; 4 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
OY 1191 GAUGUGGACUUGAGAGG 1209
DB 19 GATGTGTGACTTGAGAGG 1
XX
RESULT 459
AEA02285/c
ID AEA02285 standard; RNA; 19 BP.
XX
AC AEA02285;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 169.
XX
XX Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
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PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX DR
XX

PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00825966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 148; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 5 A; 4 C; 5 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
OY 867 CUGCAGCAGUACGACU 885
DB 19 CTGCAGCAGTTACGACTT 1
RESULT 454
AEA02269/c
ID AEA02269 standard; RNA; 19 BP.
XX
XX AEA02269;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 153.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00825966.
PR 30-APR-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 153; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 2 A; 5 C; 7 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 957 CUGGAACCCAGCTCCGAG 975
DB 19 CTGGAACCCAGCTCCGAG 1
RESULT 455
AEA02271/c
ID AEA02271 standard; RNA; 19 BP.
XX
XX AEA02271;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 155.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00825966.
PR 30-APR-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 153; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 2 A; 5 C; 7 G; 0 T; 5 U; 0 Other;
SQ

PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
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XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 153; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 2 A; 5 C; 7 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 957 CUGGAACCCAGCTCCGAG 975
DB 19 CTGGAACCCAGCTCCGAG 1
RESULT 455
AEA02271/c
ID AEA02271 standard; RNA; 19 BP.
XX
XX AEA02271;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 155.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00825966.
PR 30-APR-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
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XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 153; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 2 A; 5 C; 7 G; 0 T; 5 U; 0 Other;
SQ

PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-0078090.
PR 16-APR-2004; 2004US-0082696.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA Richards I, Macswigen J;
XX WPI; 2005-356237/36.
DR
XX
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 114; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 4 C; 4 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 255 CACCAUCCUGGUAUUGUG 273
DB 19 CACATCTCTGTATATGTG 1
RESULT 452
AEA02252/C
ID AEA02252 standard; RNA; 19 BP.
AC AEA02252;
XX
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 136.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
PN
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.

PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-0082696.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA Richards I, Macswigen J;
XX WPI; 2005-356237/36.
DR
XX
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 136; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 6 C; 4 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 651 UCCGGGAGAGGCUCAU 669
DB 19 TCCGGGAGAGGCTTCA 1
RESULT 453
AEA02264/C
ID AEA02264 standard; RNA; 19 BP.
AC AEA02264;
XX
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 148.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
PN
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.

PF 20-AUG-2004; 2004WO-US027367.
 XX 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 XX Richards I, Macswiggen J;
 XX WPI; 2005-356237/36.
 DR New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 105; 184bp; English.
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 5 A; 4 C; 6 G; 0 T; 4 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 93 GGAACCGUACUCUUC 111
 Db |||||:||||:||||:
 19 GGAACCGUACUCATTTTC 1
 XX
 RESULT 450
 AEA02226/c
 ID AEA02226 standard; RNA; 19 BP.
 XX
 AC AEA02226;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 110.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX

PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 XX Richards I, Macswiggen J;
 XX WPI; 2005-356237/36.
 DR New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 110; 184bp; English.
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 4 A; 5 C; 5 G; 0 T; 5 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 1.6e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 183 AGGUCUACCGUCGCAA 201
 Db |||||:||||:||||:
 19 AGGUCUACCGUCGCGCAA 1
 XX
 RESULT 451
 AEA02230/c
 ID AEA02230 standard; RNA; 19 BP.
 XX
 AC AEA02230;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 114.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PD 23-OCT-2003; 2003US-00693059.
 XX
 PR 24-NOV-2003; 2003US-00720448.
 XX

PN WO2005045040-A2.
XX
XX
PD 19-MAY-2005.
XX
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
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PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
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PI Richards I, Macswiggen J;
XX
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DR WPI; 2005-356237/36.
XX
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
PS Claim 33; SEQ ID NO 59; 184pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 3 A; 8 C; 6 G; 0 T; 2 U; 0 Other;
XX
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1047 CGCCUCUCCGACGAGAG 1065
DB 1 CGCCUCUCCGACGAGAG 19
XX
XX
RESULT 448
AEA02220/C
ID AEA02220 standard; RNA; 19 BP.
XX
XX
AC AEA02220;
XX
XX
DT 28-JUL-2005 (first entry)
XX
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 104.
XX
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
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XX
PN WO2005045040-A2.
XX

PD 19-MAY-2005.
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PF 20-AUG-2004; 2004WO-US027367.
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PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
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PA (SIRN-) SIRNA THERAPEUTICS INC.
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PI Richards I, Macswiggen J;
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XX
DR WPI; 2005-356237/36.
XX
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
PS Claim 33; SEQ ID NO 104; 184pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 19 BP; 2 A; 7 C; 8 G; 0 T; 2 U; 0 Other;
XX
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
QY 75 CGAUGCAGGCGUCCCCCG 93
DB 19 CGATGCAAGGCGTCCCCCG 1
XX
XX
RESULT 449
AEA02221/C
ID AEA02221 standard; RNA; 19 BP.
XX
XX
AC AEA02221;
XX
XX
DT 28-JUL-2005 (first entry)
XX
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 105.
XX
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX
OS Synthetic.
XX
XX
PN WO2005045040-A2.
XX
XX
PD 19-MAY-2005.
XX

KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX Synthetic.
 OS
 XX WO2005045040-A2.
 PN
 XX 19-MAY-2005.
 PD
 XX 20-AUG-2004; 2004WO-US027367.
 PF
 XX 23-OCT-2003; 2003US-00693059.
 PR
 XX 24-NOV-2003; 2003US-00720448.
 PR
 XX 03-DEC-2003; 2003US-00727780.
 PR
 XX 14-JAN-2004; 2004US-00757803.
 PR
 XX 10-FEB-2004; 2004US-0543480P.
 PR
 XX 13-FEB-2004; 2004US-00780447.
 PR
 XX 11-MAR-2004; 2004US-00798090.
 PR
 XX 16-APR-2004; 2004US-00826966.
 PR
 XX 30-APR-2004; 2004WO-US013456.
 PR
 XX 24-MAY-2004; 2004WO-US016390.
 PR
 XX 17-AUG-2004; 2004US-00919866.
 PA
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PI
 XX Richards I, Macswiggen J;
 DR
 XX WPI; 2005-356237/36.
 PT
 XX New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 PS
 XX Claim 33; SEQ ID NO 38; 184bp; English.
 CC
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 3 A; 7 C; 4 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 669 UCAGUCCUCAGUGAGCCC 687
 DB 1 UCAGUCCUCAGUGAGCCC 19
 RESULT 446
 AEA02165
 ID AEA02165 standard; RNA; 19 BP.
 AC AEA02165;
 XX
 XX 28-JUL-2005 (first entry)
 DT
 XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 49.
 DE
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX

OS Synthetic.
 XX
 XX WO2005045040-A2.
 PN
 XX 19-MAY-2005.
 PD
 XX 20-AUG-2004; 2004WO-US027367.
 PF
 XX 23-OCT-2003; 2003US-00693059.
 PR
 XX 24-NOV-2003; 2003US-00720448.
 PR
 XX 03-DEC-2003; 2003US-00727780.
 PR
 XX 14-JAN-2004; 2004US-00757803.
 PR
 XX 10-FEB-2004; 2004US-0543480P.
 PR
 XX 13-FEB-2004; 2004US-00780447.
 PR
 XX 11-MAR-2004; 2004US-00798090.
 PR
 XX 16-APR-2004; 2004US-00826966.
 PR
 XX 30-APR-2004; 2004WO-US013456.
 PR
 XX 24-MAY-2004; 2004WO-US016390.
 PR
 XX 17-AUG-2004; 2004US-00919866.
 PA
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PI
 XX Richards I, Macswiggen J;
 DR
 XX WPI; 2005-356237/36.
 PT
 XX New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 PS
 XX Claim 33; SEQ ID NO 49; 184bp; English.
 CC
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 5 A; 5 C; 4 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 867 CUGCAGCAGUACGAACUU 885
 DB 1 CUGCAGCAGUACGAACUU 19
 RESULT 447
 AEA02175
 ID AEA02175 standard; RNA; 19 BP.
 AC AEA02175;
 XX
 XX 28-JUL-2005 (first entry)
 DT
 XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 59.
 DE
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 XX Synthetic.
 OS

KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-0072780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) siRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 20; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases.
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 3 C; 5 G; 0 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 345 GAUUAUCCGGGUGCAUUCUCA 363
DB 1 GAUUAUCCGGGUGCAUUCUCA 19
XX
RESULT 444
AEA02143
ID AEA02143 standard; RNA; 19 BP.
XX
AC AEA02143;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 27.
XX
KW Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;

KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-0072780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) siRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 27; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases.
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 5 C; 4 G; 0 T; 6 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 471 GAUCUUCUGGUGCAUCAGC 489
DB 1 GAUCUUCUGGUGCAUCAGC 19
XX
RESULT 445
AEA02154
ID AEA02154 standard; RNA; 19 BP.
XX
AC AEA02154;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 38.
XX
KW Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 15.
DE Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX WO2005045040-A2.
XX PN 19-MAY-2005.
XX PD 20-AUG-2004; 2004WO-US027367.
XX PF 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX PS Claim 33; SEQ ID NO 15; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 5 A; 4 C; 4 G; 0 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 255 CAACAUCUCUGUAUUGUG 273
DB 1 CAACAUCUCUGUAUUGUG 19
RESULT 442
AEA02133
ID AEA02133 standard; RNA; 19 BP.
XX
XX AEA02133;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 17.

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic; asthma; allergic rhinitis;
XX Chronic obstructive pulmonary disease; allergy; cystic fibrosis; alzheimers disease;
XX sinusitis; inflammation; allergy; cholinergic receptor muscarinic 3; CHRM3; ss;
XX micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX WO2005045040-A2.
XX PN 19-MAY-2005.
XX PD 20-AUG-2004; 2004WO-US027367.
XX PF 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX XX
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX PS Claim 33; SEQ ID NO 17; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 6 A; 5 C; 6 G; 0 T; 2 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 291 GCAAGUGAAGACGUGAAC 309
DB 1 GCAAGUGAAGACGUGAAC 19
RESULT 443
AEA02136
ID AEA02136 standard; RNA; 19 BP.
XX
XX AEA02136;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 20.
DE Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX

[illegible]

XX	28-JUL-2005 (first entry)	
DT		
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 11.	
XX		
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;	
KW	Neuroprotective; Nootropic; Utopathic;	
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;	
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;	
KW	micriticun disorder; cholinergic receptor muscarinic 3; CHRM3; ss;	
XX	siRNA; RNA interference; gene silencing; short interfering RNA.	
OS	Synthetic.	
XX		
PN	WO2005045040-A2.	
XX		
PD	19-MAY-2005.	
XX		
PF	20-AUG-2004; 2004WO-US027367.	
XX		
PR	23-OCT-2003; 2003US-00693059.	
PR	24-NOV-2003; 2003US-00720448.	
PR	03-DEC-2003; 2003US-00727780.	
PR	14-JAN-2004; 2004US-00757803.	
PR	10-FEB-2004; 2004US-0543480P.	
PR	13-FEB-2004; 2004US-00780447.	
PR	11-MAR-2004; 2004US-00798090.	
PR	16-APR-2004; 2004US-00826966.	
PR	30-APR-2004; 2004WO-US013456.	
PR	24-MAY-2004; 2004WO-US016390.	
PR	17-AUG-2004; 2004US-00919866.	
XX		
PA	(SIRN-) SIRNA THERAPEUTICS INC.	
XX		
PI	Richards I, Macswigen J;	
XX		
DR	WPI; 2005-356237/36.	
XX		
PT	New short interfering nucleic acid molecule that directs cleavage of a	
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing	
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary	
PT	disease.	
XX		
PS	Claim 33; SEQ ID NO 11; 184pp; English.	
XX		
CC	The invention relates to a chemically synthesized double stranded short	
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a	
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference	
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are	
CC	useful for treating or preventing respiratory and pulmonary diseases,	
CC	disorders, and/or conditions, including chronic obstructive pulmonary	
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,	
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The	
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.	
XX		
XX		
SEQ	Sequence 19 BP; 5 A; 5 C; 5 G; 0 T; 4 U; 0 Other;	
Query Match	1.1%; Score 19; DB 1; Length 19;	
Best Local Similarity	100.0%; Pred. No. 1.6e+02;	
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	183 AGGCAUACCGUGCGCAA 201	
DB	1 AGGCAUACCGUGCGCAA 19	
RESULT 441		
AEAO2131		
ID	AEAO2131 standard; RNA; 19 BP.	
AC	AEAO2131;	
DT	28-JUL-2005 (first entry)	

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RESULT 437
ID AEA02313/c
AC AEA02313 standard; RNA; 19 BP.
XX
XX AEA02313;
XX
XX 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 197.
XX
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX PS Claim 33; SEQ ID NO 197; 184bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 0 A; 7 C; 9 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred.No.1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1749 GCGGCAACCCGACAGGCC 1767
XX |||||||||||||||||||
XX Db 19 GCGGCAACCCGACAGGCC 1
XX
XX RESULT 438
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AEA02120
ID AEA02120 standard; RNA; 19 BP.
XX
XX AC AEA02120;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 4.
XX
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX PS Claim 33; SEQ ID NO 4; 184bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 4 A; 9 C; 3 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred.No.1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 57 CUGGAUACACAGCCCTCUC 75
XX |||||||||||||||||||
XX Db 1 CUGGAUACACAGCCCTCUC 19
XX
XX RESULT 439
XX AEA02123
XX ID AEA02123 standard; RNA; 19 BP.
```

OY 1353 GGGCACUACUCUCUGCC 1371
|||||:||||:||||
DB 19 GGGCACTTACTCTCTGCC 1

RESULT 435
AEA02295/c
ID AEA02295 standard; RNA; 19 BP.
XX
AC AEA02295;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 179.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 179; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 2 A; 6 C; 3 G; 0 T; 8 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1425 CACUAGCGGAAGAGAU 1443
|||||:|||||:|||||:|

DB 19 CACTAAGCGGAAGAGATG 1

RESULT 436
AEA02303/c
ID AEA02303 standard; RNA; 19 BP.
XX
AC AEA02303;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 187.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 187; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 5 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 1569 AACCUUUGAUAUCUGGC 1587
|||||:|||||:|||||:|

DB 19 AACCTTTGGAATCTGGC 1

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 507 CAUACAGAGCGCCGACAG 525
||:|||||:|||||:
Db 19 CATCAGAGCGCCGCTCAG 1

RESULT 433
AEA02288/c
ID AEA02288 standard; RNA; 19 BP.
AC AEA02288;
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 172.
XX DE Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX KW Neuroprotective; Nootropic; Uropathic;
XX KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswigen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 172; 184pp; English.
XX PS The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 2 A; 6 C; 5 G; 0 T; 6 U; 0 Other;
XX

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;

Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 1299 AGCCGTGACACAGCTAAG 1317
|||||:|||||:
Db 19 AGCCGTGACACAGCTAAG 1

RESULT 434
AEA02291/c
ID AEA02291 standard; RNA; 19 BP.
AC AEA02291;
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 175.
XX DE Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX KW Neuroprotective; Nootropic; Uropathic;
XX KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswigen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 175; 184pp; English.
XX PS The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 5 A; 3 C; 9 G; 0 T; 2 U; 0 Other;
XX

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

CC Present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 3 C; 9 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY CUCCUCCGACGAGGUAAC 165
DB 19 CTCCTCCGACGATACC 1

RESULT 431
AEA02243/c
ID AEA02243 standard; RNA; 19 BP.
AC AEA02243;
XX
XX 28-JUL-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 127.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS
XX Synthetic.
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
XX Richards I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
DR
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 127; 184bp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

SQ Sequence 19 BP; 8 A; 2 C; 5 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.6e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
QY CUUGACAGAUACUUUCC 507
DB 19 CTTGACAGATCTTTC 1

RESULT 432
AEA02244/c
ID AEA02244 standard; RNA; 19 BP.
XX
XX AEA02244;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 128.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
OS
XX Synthetic.
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX
XX Richards I, Macswiggen J;
PI
XX
XX WPI; 2005-356237/36.
DR
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
XX Claim 33; SEQ ID NO 128; 184bp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

SQ Sequence 19 BP; 2 A; 5 C; 8 G; 0 T; 4 U; 0 Other;

CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 4 C; 6 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 651 UCCGGAGAGUGUCUACAUU 669
Db 1 UCCGGAGAGUGUCUACAUU 19
RESULT 429
AEA02160
ID AEA02160 standard; RNA; 19 BP.
XX
AC AEA02160;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 44. {
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 44; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary

CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 8 A; 4 C; 4 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 777 AAAGCGUACCAAGAGCUU 795
Db 1 AAAGCGUACCAAGAGCUU 19
RESULT 430
AEA02224/C
ID AEA02224 standard; RNA; 19 BP.
XX
AC AEA02224;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 108.
XX
DE Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 108; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 7 C; 5 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 165 CACCGAUGACCCUCCUGGA 183
Db 1 CACCGAUGACCCUCCUGGA 19
RESULT 427
AEA02146
ID AEA02146 standard; RNA; 19 BP.
XX
AC AEA02146;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 30.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
XX MPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 30; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 8 A; 6 C; 4 G; 0 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 525 GUACCGAGCCAAACGACA 543
Db 1 GUACCGAGCCAAACGACA 19
RESULT 428
AEA02153
ID AEA02153 standard; RNA; 19 BP.
XX
AC AEA02153;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 37.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
XX MPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 37; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are

PT disease.
XX
PS Claim 33; SEQ ID NO 182, 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 5 C; 6 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 1479 CAGUGCGAUCUGCUGCC 1497
DB 19 CAGTGGATCTTGCTTGC 1
|||:||||:||||:||||:
|||:||||:||||:||||:
RESULT 425
AEA02311/c
ID AEA02311 standard; RNA; 19 BP.
XX
AC AEA02311;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 195.
XX
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX

PS Claim 33; SEQ ID NO 195, 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 6 C; 5 G; 0 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1713 GCAGUACAGACAGACAG 1731
DB 19 GCAGTACAGACAGACAG 1
|||:||||:||||:||||:
|||:||||:||||:||||:
RESULT 426
AEA02126
ID AEA02126 standard; RNA; 19 BP.
XX
AC AEA02126;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 10.
XX
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PS Claim 33; SEQ ID NO 10; 184pp; English.
XX

XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 143; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 4 C; 4 G; 0 T; 8 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
OY 777 AAGCGUACCAAGAGCTT 795
DB 19 AAGCGTACCAAGAGCTT 1
XX
RESULT 423
AEA02270/C
ID AEA02270 standard; RNA; 19 BP.
XX
AC AEA02270;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 154.
XX
KM Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 11-MAR-2004; 2004US-00780447.
PR 13-FEB-2004; 2004US-00780447.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004US-00826966.
PR 24-MAY-2004; 2004WO-US013456.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a

PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 154; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 5 C; 6 G; 0 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 975 GCAGUAGACCAAGACCAC 993
DB 19 GCAGATGACCAAGACCAC 1
XX
RESULT 424
AEA02298/C
ID AEA02298 standard; RNA; 19 BP.
XX
AC AEA02298;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 182.
XX
KM Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004US-00826966.
PR 24-MAY-2004; 2004WO-US013456.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary

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XX PI Richard I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 119; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 7 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
XX
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.6e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
OY 345 GAUUAUCGGGAGUCAUUUA 363
DB 19 GATTATCGGGTCATTTC A 1

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RESULT 421
AEA02237/C
ID AEA02237 standard; RNA; 19 BP.
AC AEA02237;
XX
XX
DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 121.
XX DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neutroprotective; Nootropic; Uropathic;
XX KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
XX KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX PF
XX 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) siRNA THERAPEUTICS INC.
XX PA Richards I, Macswiggen J;
XX PI

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XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 121; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 5 A; 2 C; 5 G; 0 T; 7 U; 0 Other;
XX
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
OY 381 CUACAUCAUGAUGAUGCA 399
DB 19 CTRACATCATCATGATGCA 1

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RESULT 422
AEA02259/C
ID AEA02259 standard; RNA; 19 BP.
AC AEA02259;
XX
XX
DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 143.
XX DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neutroprotective; Nootropic; Uropathic;
XX KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
XX KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX PF
XX 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) siRNA THERAPEUTICS INC.
XX PA Richards I, Macswiggen J;
XX PI WPI; 2005-356237/36.
XX DR


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PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004US-00916390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macewiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 162; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 1 C; 9 G; 0 T; 6 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
OY 1119 UCACGACCAUCCUCCAC 1137
Db 19 TCACGACCATCTCTCAC 1
XX
RESULT 417
ID AEA02284/C
AC AEA02284 standard; RNA; 19 BP.
XX
AC AEA02284;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 168.
XX
KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.

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PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macewiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 168; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 8 C; 5 G; 0 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 1227 GCGCCGAGAGCGGCGAC 1245
Db 19 GCGCCGAGAGCGGCGAC 1
XX
RESULT 418
ID AEA02314/C
AC AEA02314 standard; RNA; 19 BP.
XX
AC AEA02314;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 198.
XX
KW Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.

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PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX DR
XX XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 133; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 7 A; 5 C; 6 G; 0 T; 1 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.6e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
QY 597 UUGAGCUCUCCGCAUCUUG 615
Db 19 TTGGGCTCTCGTCACATCTTG 1
:::|||||:::|||||:::|||||
RESULT 415
AEA02251/C
ID AEA02251 standard; RNA; 19 BP.
XX AC AEA02251;
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 135.
XX XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.

PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX DR
XX XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 135; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 4 A; 6 C; 3 G; 0 T; 6 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 633 UGGAAAGAGAACUGGCCU 651
Db 19 TGGAAAGAGAACTGTGCTT 1
:::|||||:::|||||:::|||||
RESULT 416
AEA02278/C
ID AEA02278 standard; RNA; 19 BP.
XX AC AEA02278;
XX DT 28-JUL-2005 (first entry)
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 162.
XX XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.

XX 20-AUG-2004; 2004WO-US027367.
 PF 23-OCT-2003; 2003US-00693059.
 XX 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA Richarde I, Macswiggen J;
 PI MPI; 2005-356237/36.
 XX
 DR MPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 117, 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 6 A; 1 C; 7 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 68.4%; Pred. No. 1.6e+02;
 Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 QY 309 CAACUACUUCCTCCTTAAGC 327
 DB 19 CAACUACUUCCTCCTTAAGC 1
 RESULT 413
 AEA02247/c
 ID AEA02247 standard; RNA; 19 BP.
 XX
 AC AEA02247;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 131.
 XX
 KW Respiratory-Gen.; Antiasmatic; Antiallergic; Antiinflammatory;
 XX Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
 KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 XX siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.

XX 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA Richarde I, Macswiggen J;
 PI MPI; 2005-356237/36.
 XX
 DR MPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 131, 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 6 A; 8 C; 3 G; 0 T; 2 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 68.4%; Pred. No. 1.6e+02;
 Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 QY 561 GAUGAUCGUGUCGUCUGG 579
 DB 19 GATGATCGGCTGCTTGG 1
 RESULT 414
 AEA02249/c
 ID AEA02249 standard; RNA; 19 BP.
 XX
 AC AEA02249;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 133.
 XX
 KW Respiratory-Gen.; Antiasmatic; Antiallergic; Antiinflammatory;
 XX Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
 KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 XX siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.

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XX XX WO2005045040-A2.
XX XX
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004MO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004MO-US013456.
XX PR 24-MAY-2004; 2004MO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRM-) SIRMNA THERAPEUTICS INC.
XX PI Richards I, Macswigen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 95; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 10 A; 3 C; 6 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred.No.1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1695 AAAAAAGAGCGCGAAGCAG 1713
Db 1 AAAAAAGAGCGCGAAGCAG 19
RESULT 411
AEA02216/C
ID AEA02216 standard; RNA; 19 BP.
XX
XX AC AEA02216;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 100.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neuroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD
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XX XX 19-MAY-2005.
XX PD 20-AUG-2004; 2004MO-US027367.
XX PF 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004MO-US013456.
XX PR 24-MAY-2004; 2004MO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRM-) SIRMNA THERAPEUTICS INC.
XX PI Richards I, Macswigen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 100; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 4 A; 3 C; 5 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 78.9%; Pred.No.1.6e+02;
XX Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
OY 3 GACCTUGCACAUAACAGU 21
Db 19 GACCTTGACATATACAGT 1
RESULT 412
AEA02233/C
ID AEA02233 standard; RNA; 19 BP.
XX
XX AC AEA02233;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 117.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neuroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX
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KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX Synthetic.
XX WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 81; 184bp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX CC
XX SQ Sequence 19 BP; 5 A; 4 C; 7 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1443 GUCCUGGUCAGAGAGAG 1461
DB 1 GUCCUGGUCAGAGAGAG 19
RESULT 409
AEA02199
ID AEA02199 standard; RNA; 19 BP.
XX
XX AEA02199;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 83.
XX
XX Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.

XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX PN 19-MAY-2005.
XX PD 20-AUG-2004; 2004WO-US027367.
XX PF 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX PI WPI; 2005-356237/36.
XX DR
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 83; 184bp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX CC
XX SQ Sequence 19 BP; 2 A; 6 C; 5 G; 0 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1479 CAGUGGAGUCUGGUGCC 1497
DB 1 CAGUGGAGUCUGGUGCC 19
RESULT 410
AEA02211
ID AEA02211 standard; RNA; 19 BP.
XX
XX AEA02211;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 95.
XX
XX Respiratory-Gen.; Antiaesthetic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.

KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX
XX Claim 33; SEQ ID NO 57; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 7 A; 4 C; 4 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1011 GAACAACAUGAUGUGCU 1029
Db 1 GAACAACAUGAUGUGCU 19
RESULT 407
AEA02190
ID AEA02190 standard; RNA; 19 BP.
XX
XX AEA02190;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 74.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;

KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX
XX Claim 33; SEQ ID NO 74; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 4 A; 7 C; 3 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1317 GACUUCGACGUCACUCC 1335
Db 1 GACUUCGACGUCACUCC 19
RESULT 408
AEA02197
ID AEA02197 standard; RNA; 19 BP.
XX
XX AEA02197;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 81.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;

DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 22.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 22; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 7 A; 5 C; 2 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred.No.1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 381 CUACAUCAUCGAUUGCA 399
DB 1 CUACAUCAUCGAUUGCA 19

RESULT 405
AEA02144
ID AEA02144 standard; RNA; 19 BP.
XX
XX AEA02144;
AC
XX 28-JUL-2005 (first entry)
XX
XX

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 28.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 28; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 4 A; 5 C; 2 G; 0 T; 8 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred.No.1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 489 CUUGACAGAUACUUUCC 507
DB 1 CUUGACAGAUACUUUCC 19

RESULT 406
AEA02173
ID AEA02173 standard; RNA; 19 BP.
XX
XX AEA02173;
AC
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 57.
XX
XX

ID AEA02306 standard; RNA; 19 BP.
XX
AC AEA02306;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 190.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US015390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richard I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 190; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 7 A; 6 C; 5 G; 0 T; 1 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.6e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
QY 1623 CGUGUGCUAUGCUCUGUC 1641
DB 19 CGTGTCTATGCTCTGTGC 1
RESUL403
AEA02137
ID AEA02137 standard; RNA; 19 BP.
XX

AC AEA02137;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 21.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US015390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richard I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 21; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 4 C; 3 G; 0 T; 6 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 363 AAUGAUCUGUUAAGACC 381
DB 1 AAUGAUCUGUUAAGACC 19
RESUL404
AEA02138
ID AEA02138 standard; RNA; 19 BP.
XX
AC AEA02138;
XX

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RESULT 400
AEA02302/c
ID AEA02302 standard; RNA; 19 BP.
XX
XX
AC AEA02302;
XX
XX 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 186.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00788447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 186; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 3 A; 3 C; 6 G; 0 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1551 UGACGCTGCAUACCCAAA 1569
DB 19 TGACAGCTGCATACCCAAA 1

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RESULT 401
AEA02304/c
ID AEA02304 standard; RNA; 19 BP.
XX
XX
AC AEA02304;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 188.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00788447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 188; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 6 A; 4 C; 6 G; 0 T; 3 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 1587 CUACUGGCTGUCGUAUAC 1605
DB 19 CTAAGTGTGTGTCTATATC 1

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RESULT 402
AEA02306/c

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CC Cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 2 C; 6 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 1515 CCCAUAACAACUAUGGU 1533
|||||:|||||:|||||:
DB 19 CCCATACACATCATGTT 1
RESULT 394
AEA02186
ID AEA02186 standard; RNA; 19 BP.
AC AEA02186;
XX
XX 28-JUL-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 70.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microcurtion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PD 20-AUG-2004; 2004WO-US027367.
XX
PF 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 70; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX
SQ Sequence 19 BP; 4 A; 4 C; 6 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1245 CGAUGAGGCGAGUUCGA 1263
|||||:|||||:|||||:
DB 1 CGAUGAGGCGAGUUCGA 19
RESULT 395
AEA02193
ID AEA02193 standard; RNA; 19 BP.
AC AEA02193;
XX
XX 28-JUL-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 77.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microcurtion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PD 20-AUG-2004; 2004WO-US027367.
XX
PF 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 77; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 6 C; 4 G; 0 T; 4 U; 0 Other;

CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX Sequence 19 BP; 5 A; 2 C; 5 G; 0 T; 7 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1263 AAAAGCUCUCCAGCCTT 1281

Db 19 AAAAGCTTCTCCAGCTT 1

RESULT 392

AEA02287/c

ID AEA02287 standard; RNA; 19 BP.

AC AEA02287;

DT 28-JUL-2005 (first entry)

XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 171.

XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;

XX Neuroprotective; Nootropic; Uropathic;

XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;

XX sinusitis; inflammation; allergy; cystic fibrosis; Alzheimer's disease;

XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

XX siRNA; RNA interference; gene silencing; short interfering RNA.

XX Synthetic.

XX WO2005045040-A2.

XX 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727780.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004US-00826966.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

PR 17-AUG-2004; 2004US-00919866.

XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Richards I, Macswiggen J;

XX MPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.

XX Claim 33; SEQ ID NO 171; 184bp; English.

CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,

CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX Sequence 19 BP; 4 A; 3 C; 7 G; 0 T; 5 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 1.6e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1281 UCCCAUCCAGCAGAGUCA 1299

Db 19 TCCCATCCAGCTAGAGTCA 1

RESULT 393

AEA02300/c

ID AEA02300 standard; RNA; 19 BP.

AC AEA02300;

DT 28-JUL-2005 (first entry)

XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 184.

XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;

XX Neuroprotective; Nootropic; Uropathic;

XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;

XX sinusitis; inflammation; allergy; cystic fibrosis; Alzheimer's disease;

XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

XX siRNA; RNA interference; gene silencing; short interfering RNA.

XX Synthetic.

XX WO2005045040-A2.

XX 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727780.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004US-00826966.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

PR 17-AUG-2004; 2004US-00919866.

XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Richards I, Macswiggen J;

XX MPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.

XX Claim 33; SEQ ID NO 184; 184bp; English.

CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 2 A; 3 C; 4 G; 0 T; 10 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 885 UCACAGCAAGCAAGCAAA 903
Db :|||||:|||||:|||||
19 TCACAGCAAGCAAGCATGAA 1
RESULT 390
AEA02273/c
ID AEA02273 standard; RNA; 19 BP.
XX
AC AEA02273;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 157.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-054380P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 157; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 4 C; 8 G; 0 T; 3 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1029 UGCTCCCTCGAGACATCC 1047
Db :|||||:|||||:|||||
19 TGCCTCCCTCGAGACTCC 1
RESULT 391
AEA02286/c
ID AEA02286 standard; RNA; 19 BP.
XX
AC AEA02286;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 170.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-054380P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 170; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference

PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
XX	
PS	Claim 33; SEQ ID NO 122; 184pp; English.
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholesterol receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SO	Sequence 19 BP; 5 A; 7 C; 3 G; 0 T; 4 U; 0 Other;
Oy	
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;	
Ds	
399 AUGGCCUAGGGAACUUG 417	
19 AUGGCCUAGGGAACUUG 1	
RESULT 388	
AEA02258/C	
ID AEA02258 standard; RNA; 19 BP.	
AC AEA02258;	
XX	
DT 28-JUL-2005 (first entry)	
XX	
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 142.	
XX	
KW Respiratory-Gen.; Antiaesthetic; Anti-allergic; Anti-inflammatory;	
KW Neuroprotective; Nootropic; Utopachic;	
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;	
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer disease;	
KW micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;	
KW siRNA; RNA interference; gene silencing; short interfering RNA.	
XX	
OS Synthetic.	
XX	
PN WO2005045040-A2.	
XX	
PD 19-MAY-2005.	
XX	
PF 20-AUG-2004; 2004WO-US027367.	
XX	
PR 23-OCT-2003; 2003US-00693059.	
PR 24-NOV-2003; 2003US-00720448.	
PR 03-DEC-2003; 2003US-00727780.	
PR 14-JAN-2004; 2004US-00757803.	
PR 10-FEB-2004; 2004US-0543480P.	
PR 13-FEB-2004; 2004US-00780447.	
PR 11-MAR-2004; 2004US-00798090.	
PR 16-APR-2004; 2004US-00826966.	
PR 30-APR-2004; 2004WO-US013456.	
PR 24-MAY-2004; 2004WO-US016390.	
PR 17-AUG-2004; 2004US-00919866.	
XX	
PA (SIRN-) SIRNA THERAPEUTICS INC.	
XX	
PI Richards I; Macawiggen J;	
XX	
DR WPI; 2005-356237/36.	
XX	
PT New short interfering nucleic acid molecule that directs cleavage of a	
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing	
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary	
PT disease.	

XX	Claim 33; SEQ ID NO 142; 184pp; English.
PS	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholesterol receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholesterol receptor muscarinic 3 siRNA.
CC	
CC	
XX	
SQ	Sequence 19 BP; 4 A; 4 C; 2 G; 0 T; 9 U; 0 Other;
OY	
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative	4; Mismatches 0; Indels 0; Gaps 0;
DB	
759 GAUCUUAUAGGAAACUGAA 777	
:	
19 GATCTATPAGGAACACTGAA 1	
RESULT 389	
AEA02265/c	
ID	AEA02265 standard; RNA; 19 BP.
AC	
AEAO2265;	
DT	28-JUL-2005 (first entry)
DE	
XX	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 149.
KW	
Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;	
Neuroprotective; Nootropic; Trophic;	
Chronic obstructive pulmonary disease; asthma; allergic rhinitis;	
sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;	
mucurricular disorder; cholinergic receptor muscarinic 3; CHRM3; ss;	
siRNA; RNA interference; gene silencing; short interfering RNA.	
OS	
Synthetic.	
PV	
WO2005045040-A2.	
PD	
19-MAY-2005.	
PF	
20-AUG-2004; 2004WO-US027367.	
PR	
23-OCT-2003; 2003US-00693059.	
PR	
24-NOV-2003; 2003US-00720448.	
PR	
03-DEC-2003; 2003US-00727780.	
PR	
14-JAN-2004; 2004US-00757803.	
PR	
10-FEB-2004; 2004US-0543480P.	
PR	
13-FEB-2004; 2004US-00780447.	
PR	
11-MAR-2004; 2004US-00798090.	
PR	
16-APR-2004; 2004US-00826966.	
PR	
30-APR-2004; 2004WO-US013456.	
PR	
24-MAY-2004; 2004WO-US016390.	
PR	
17-AUG-2004; 2004US-00919866.	
PA	
(SIRN-) SIRNA THERAPEUTICS INC.	
PI	
Richarde I, Macawiggen J;	
PT	
WPI; 2005-356237/36.	
XX	
New short interfering nucleic acid molecule that directs cleavage of a	
cholesterol receptor muscarinic 3 RNA, useful for treating or preventing	
respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary	
disease.	
XX	
Claim 33; SEQ ID NO 149; 184pp; English.	

DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 76; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 2 A; 9 C; 3 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1353 GGCCACUCUACCCUGUCC 1371
DB 1 GGCCACUCUACCCUGUCC 19
RESULT 386
AEA02200
ID AEA02200 standard; RNA; 19 BP.
XX
XX AEA02200;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 84.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 84; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 4 A; 7 C; 2 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1497 CUUCACUACUACUUGACC 1515
DB 1 CUUCACUACUACUUGACC 19
RESULT 387
AEA02238/c
ID AEA02238 standard; RNA; 19 BP.
XX
XX AEA02238;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 122.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 03-DEC-2003; 2003US-00727780.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX 10-FEB-2004; 2004US-0543480P.
XX
XX 13-FEB-2004; 2004US-00780447.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 16-APR-2004; 2004US-00826966.
XX
XX 30-APR-2004; 2004WO-US013456.
XX
XX 24-MAY-2004; 2004WO-US016390.
XX
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT

PA (SIRM-) SIRNA THERAPEUTICS INC.
 XX Richards I, Macswiggen J;
 PI WPI, 2005-356237/36.
 XX
 DR
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 55; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 7 A; 6 C; 5 G; 0 T; 1 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 975 GCAGAGGACCAAGACCAC 993
 DB 1 GCAGAGGACCAAGACCAC 19
 RESULT 384
 AEA02178
 ID AEA02178 standard; RNA; 19 BP.
 XX
 AC AEA02178;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 62.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRM-) SIRNA THERAPEUTICS INC.
 XX

PI Richards I, Macswiggen J;
 XX
 DR WPI, 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 62; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 2 A; 6 C; 6 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1101 CGGCTCAGAGCTUCCGGGU 1119
 DB 1 CGGCTCAGAGCTUCCGGGU 19
 RESULT 385
 AEA02192
 ID AEA02192 standard; RNA; 19 BP.
 XX
 AC AEA02192;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 76.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRM-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX

Query Match	1.1%	Score 19;	DB 1;	length 19;
Best Local Similarity	100.0%	Pred. No. 1.6e+02;		
Matches 19; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

RESULT 382
AEA02149
ID AEA02149 standard; RNA; 19 BP.

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 33.

Synthetic.

PD 19-MAY-2005.

PR 23-OCT-2003; 2003US-00693059.

PR 10-FEB-2004; 2004US-0543480P.

PR 30-APR-2004; 2004WO-US013456.

Matches	Conservative	Mismatches	Indels	Gaps
579	579	0	0	0

ID	AEA02171	standard; RNA; 19 BP.
XX		
AC	AEA02171;	

[illegible]

W02005045

PF 20-AUG-2004

PR 03-DEC-2003; 2003US-00727780.

PR 11-MAR-2004; 2004US-00798090.

PR 17-AUG-2004; 2004US-00919866.

PR	10-FEB-2004;	2004US-0543480P.	
PR	13-FEB-2004;	2004US-00780447.	
PR	11-MAR-2004;	2004US-00798090.	
PR	16-APR-2004;	2004US-00826966.	
PR	30-APR-2004;	2004MO-US013456.	
PR	24-MAY-2004;	2004MO-US016390.	
PR	17-AUG-2004;	2004US-00919866.	
PA	(SIRN-) SIRNA THERAPEUTICS INC.		
PI	Richards I, Macswigen J;		
DR	WPI; 2005-356237/36.		
PT	New short interfering nucleic acid molecule that directs cleavage of a		
PT	cholesterol receptor muscarinic 3 RNA, useful for treating or preventing		
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary		
PT	disease.		
PS	Claim 33; SEQ ID NO 145; 184pp; English.		
CC	The invention relates to a chemically synthesized double stranded short		
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a		
CC	cholesterol receptor muscarinic 3 (CHRM3) RNA via RNA interference		
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are		
CC	useful for treating or preventing respiratory and pulmonary diseases,		
CC	disorders, and/or conditions, including chronic obstructive pulmonary		
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,		
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The		
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.		
SQ	Sequence 19 BP; 1 A; 8 C; 3 G; 0 T; 7 U; 0 Other;		
Query Match	1.1%; Score 19; DB 1; Length 19;		
Best Local Similarity	94.7%; Pred. No. 1.6e+02;		
Matches	18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;		
OY	813 UGGGACAGAGCGCAGAGACA 831		
DB	19 TGGGACAGAGCGCAGAGACA 1		
RESULT 380			
AEAO2267/C			
ID	AEAO2267 standard; RNA; 19 BP.		
AC	AEAO2267;		
XX			
DT	28-JUL-2005 (first entry)		
XX			
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 151.		
XX			
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;		
KW	Neuroprotective; Nootropic; Uropathic;		
KW	Chronic obstructive pulmonary disease; asthma; allergic rhinitis;		
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;		
KW	micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;		
XX	siRNA; RNA interference; gene silencing; short interfering RNA.		
OS	Synthetic.		
XX			
PN	WO2005045040-A2.		
XX			
PD	19-MAY-2005.		
XX			
PF	20-AUG-2004; 2004WO-US027367.		
XX			
PR	23-OCT-2003; 2003US-00693059.		
PR	24-NOV-2003; 2003US-00720448.		
PR	03-DEC-2003; 2003US-00727780.		
PR	14-JAN-2004; 2004US-00757803.		
PR	10-FEB-2004; 2004US-0543480P.		
PR	13-FEB-2004; 2004US-00780447.		

PR	11-MAR-2004;	2004US-00798090.
PR	16-APR-2004;	2004US-00826966.
PR	30-APR-2004;	2004WO-US013456.
PR	24-MAY-2004;	2004WO-US016390.
PR	17-AUG-2004;	2004US-00919866.
PA	(SIRN-) SIRNA THERAPEUTICS INC.	
XX		
XX	Richards I, Macswigen J;	
PI	WPI, 2005-356237/36.	
DR		
XX		
XX		
PT	New short interfering nucleic acid molecule that directs cleavage of a	
PT	cholelnergic receptor muscarinic 3 RNA, useful for treating or preventing	
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary	
PT	disease.	
XX		
XX		
XX	Claim 33; SEQ ID NO 151; 184bp; English.	
PS		
CC	The invention relates to a chemically synthesized double stranded short	
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a	
CC	cholelnergic receptor muscarinic 3 (CHRM3) RNA via RNA interference	
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are	
CC	useful for treating or preventing respiratory and pulmonary diseases,	
CC	disorders, and/or conditions, including chronic obstructive pulmonary	
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,	
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The	
CC	present sequence represents a cholelnergic receptor muscarinic 3 siRNA.	
XX		
XX	Sequence 19 BP; 5 A; 5 C; 7 G; 0 T; 2 U; 0 Other;	
SEQ		
	Query Match	1.1%; Score 19; DB 1; Length 19;
	Best Local Similarity	73.7%; Pred. No. 1.6e+02;
	Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;	
OY	921 GUAGGCGCGCGCACATTC 939	
Db	19 GTATGCGCGCTGCGCACTTC 1	
	: : : :	
RESULT 381		
AEAO2139		
ID	AEAO2139 standard; RNA; 19 BP.	
XX		
AC	AEAO2139;	
XX		
DT	28-JUL-2005 (first entry)	
XX		
DE	Cholelnergic receptor muscarinic 3 siRNA SEQ ID NO 23.	
XX		
KM	Respiratory-Gen.; Anticestmatic; Antiallergic; Antiinflammatory;	
KM	Neuroprotective; Nootropic; Dypathic;	
KM	chronic obstructive pulmonary disease; asthma; allergic rhinitis;	
KM	sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;	
KM	micurition disorder; cholelnergic receptor muscarinic 3; CHRM3; ss;	
XX	siRNA; RNA interference; gene silencing; short interfering RNA.	
XX		
OS	Synthetic.	
XX		
PN	WO2005045040-A2.	
XX		
PD	19-MAY-2005.	
XX		
PF	20-AUG-2004; 2004WO-US027367.	
XX		
XX		
PR	23-OCT-2003; 2003US-00693059.	
PR	24-NOV-2003; 2003US-00720448.	
PR	03-DEC-2003; 2003US-00727780.	
PR	14-JAN-2004; 2004US-00757803.	
PR	10-FEB-2004; 2004US-0534480P.	
PR	13-FEB-2004; 2004US-00780447.	
PR	11-MAR-2004; 2004US-00798090.	
PR	16-APR-2004; 2004US-00826966.	

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PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00722780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX PS Claim 33; SEQ ID NO 101; 184bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 8 A; 2 C; 6 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 57.9%; Pred. No. 1.6e+02;
XX Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 21 UACACCCUGCCCUUGUUNU 39
XX :|||||:|||||:|:|:|
XX 19 TACACCTCGCCTTGTGTT 1
XX
XX Db
XX
XX RESULT 378
XX AEA02256/c
XX ID AEA02256 standard; RNA; 19 BP.
XX
XX AC AEA02256;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 140.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00722780.
XX PR 14-JAN-2004; 2004US-00757803.

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PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX PS Claim 33; SEQ ID NO 140; 184bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 19 BP; 7 A; 3 C; 5 G; 0 T; 4 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 63.2%; Pred. No. 1.6e+02;
XX Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 723 UAUCCUGUACCAUUAUG 741
XX :|||||:|||||:|:|:|
XX 19 TATGCCGTGTCACCATATG 1
XX
XX Db
XX
XX RESULT 379
XX AEA02261/c
XX ID AEA02261 standard; RNA; 19 BP.
XX
XX AC AEA02261;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 145.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00722780.
XX PR 14-JAN-2004; 2004US-00757803.

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PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macewiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 90; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 6 A; 9 C; 3 G; 0 T; 1 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1605 CAACGACCCGUGAACCC 1623
 DB 1 CAACGACCCGUGAACCC 19
 RESULT 376
 AEA02209
 ID AEA02209 standard; RNA; 19 BP.
 XX
 AC AEA02209;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DB Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 93.
 DE
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neutropoietic; Nootropic; Uropathic;
 XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 XX siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX

PF 20-AUG-2004; 2004WO-US027367.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macewiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 93; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 4 A; 5 C; 4 G; 0 T; 6 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1659 CACUUCACAGAGUCGUG 1677
 DB 1 CACUUCACAGAGUCGUG 19
 RESULT 377
 AEA02217/c
 ID AEA02217 standard; RNA; 19 BP.
 XX
 AC AEA02217;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DB Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 101.
 DE
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neutropoietic; Nootropic; Uropathic;
 XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 XX siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX

OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 79; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 8 A; 4 C; 5 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1407 GAAGACCGAAGUCAGAU 1425
DB 1 GAAGACCGAAGUCAGAU 19
-
RESULT 374
AEA02196
ID AEA02196 standard; RNA; 19 BP.
XX
AC AEA02196;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 80.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX

PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 80; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 8 A; 3 C; 6 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1425 CACUAGCGGAAAGGAUG 1443
DB 1 CACUAGCGGAAAGGAUG 19
-
RESULT 375
AEA02206
ID AEA02206 standard; RNA; 19 BP.
XX
AC AEA02206;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 90.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX

KM sinusitis; inflammation; allergy; cystic fibrosis; alzhimers disease;
 KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KM siRNA; RNA interference; gene silencing; short interfering RNA.
 XX Synthetic.
 OS
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 XX 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRM-) SIRM THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX WPI; 2005-356237/36.
 DR
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 PT
 PS Claim 33; SEQ ID NO 46; 184bp; English.
 PS
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (sirn) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The sirn molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 CC
 SQ Sequence 19 BP; 7 A; 3 C; 8 G; 0 T; 1 U; 0 Other;
 SQ
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 813 UGGGACAGAGCGACGACA 831
 |||||
 Db 1 UGGGACAGAGCGACGACA 19
 RESULT 372
 ID AEA02182
 AC AEA02182 standard; RNA; 19 BP.
 XX
 DT AEA02182;
 XX
 XX 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 66.
 XX
 KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KM Neuroprotective; Nootropic; Urothachic;
 KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KM sinusitis; inflammation; allergy; cystic fibrosis; alzhimers disease;
 KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KM siRNA; RNA interference; gene silencing; short interfering RNA.

XX	siRNA; RNA interference; gene silencing; short interfering RNA.
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PE	20-AUG-2004; 2004WO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-0079890.
PR	16-APR-2004; 2004US-00826566.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
PI	Richards I, Macswiggen J;
XX	
DR	WPI; 2005-356237/36.
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
XX	
PS	Claim 33; SEQ ID NO 66; 184pp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SO	Sequence 19 BP; 3 A; 3 C; 11 G; 0 T; 2 U; 0 Other;
XX	
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	100.0%; Pred. No. 1.Ee+02;
Matches	19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1173 GCCUGAGGAGGAGGCTGGGG 1191
DB	1 GCCUGAGGAGGAGGCTGGGG 19
XX	
RESULT 373	
AEA02195	
ID	AEA02195 standard; RNA; 19 BP.
XX	
AC	AEA02195;
XX	
DT	28-JUL-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 79.
XX	
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Uropeptic;
KW	Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW	mitochondrial disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX	siRNA; RNA interference; gene silencing; short interfering RNA.

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic; asthma; allergic rhinitis;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004WO-US013456.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 183; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 2 C; 7 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 1497 CUUCAUCGCAUCGCUUAC 1515
DB 19 CTTCACTCACTTGAC 1
RESULT 370
AEA02128
ID AEA02128 standard; RNA; 19 BP.
XX
XX AEA02128;
XX
XX
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 12.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;

KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 12; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 2 A; 5 C; 4 G; 0 T; 8 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 201 AGUGGUCUUCGCUUUC 219
DB 1 AGUGGUCUUCGCUUUC 19
RESULT 371
AEA02162
ID AEA02162 standard; RNA; 19 BP.
XX
XX AEA02162;
XX
XX
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 46.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;

XX 28-JUL-2005 (first entry)
DT
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 113.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
KM
XX Synthetic.
OS
XX WO2005045040-A2.
PN
XX 19-MAY-2005.
PD
XX 20-AUG-2004; 2004WO-US027367.
PF
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00798090.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX Richards I, Macswiggen J;
PI
XX WPI; 2005-356237/36.
DR
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 113; 184bp; English.
PS
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 5 A; 5 C; 6 G; 0 T; 3 U; 0 Other;
SQ
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 73.7%; Pred. No. 1.6e+02;
XX Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 237 CUUGGUGACCAUUCGCGC 255
DB 19 CTGGTACCATCATCGGC 1
RESULT 368
ID AEA02245/c
AC AEA02245 standard; RNA; 19 BP.
XX AEA02245;
XX 28-JUL-2005 (first entry)
DT

XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 129.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
KM
XX Synthetic.
OS
XX WO2005045040-A2.
PN
XX 19-MAY-2005.
PD
XX 20-AUG-2004; 2004WO-US027367.
PF
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 03-DEC-2003; 2003US-00727780.
PR
XX 14-JAN-2004; 2004US-00757803.
PR
XX 10-FEB-2004; 2004US-0543480P.
PR
XX 13-FEB-2004; 2004US-00780447.
PR
XX 11-MAR-2004; 2004US-00798090.
PR
XX 16-APR-2004; 2004US-00826966.
PR
XX 30-APR-2004; 2004WO-US013456.
PR
XX 24-MAY-2004; 2004WO-US016390.
PR
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX Richards I, Macswiggen J;
PI
XX WPI; 2005-356237/36.
DR
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 129; 184bp; English.
PS
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 1 A; 4 C; 6 G; 0 T; 8 U; 0 Other;
SQ
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 94.7%; Pred. No. 1.6e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 525 GUACGAGCCAAACGACA 543
DB 19 GTACCGAGCCAAACGACA 1
RESULT 369
ID AEA02299/c
AC AEA02299 standard; RNA; 19 BP.
XX AEA02299;
XX 28-JUL-2005 (first entry)
DT Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 183.
XX

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AEA02205
ID AEA02205 standard; RNA; 19 BP.
XX
AC AEA02205;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 89.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutropoietic; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-0072780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 89; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 6 C; 4 G; 0 T; 6 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1587 CUACUGGCGUGGCUACUC 1605
DB 1 CUACUGGCGUGGCUACUC 19

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XX
AC AEA02227;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 111.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutropoietic; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-0072780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 111; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 8 A; 4 C; 5 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.6e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
QY 201 AGUGGUCUACGCGUUC 219
DB 19 AGUGGUCUACGCGUUC 1

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RESULT 366
 AEA02227/C
 ID AEA02227 standard; RNA; 19 BP.

RESULT 367
 AEA02229/C
 ID AEA02229 standard; RNA; 19 BP.

DB 1 CUCCACCAAGUACCCUCA 19

RESULT 363
AEA02184
ID AEA02184 standard; RNA; 19 BP.
XX
AC AEA02184;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 68.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mucritium disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 68; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 7 A; 5 C; 6 G; 0 T; 1 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1209 GAAAGCCGACAGCUCGAG 1227
DB 1 GAAAGCCGACAGCUCGAG 19

RESULT 364
AEA02189
ID AEA02189 standard; RNA; 19 BP.
XX
AC AEA02189;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 73.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mucritium disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 73; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 6 A; 5 C; 6 G; 0 T; 2 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1299 AGCCGUGACACAGCUAG 1317
DB 1 AGCCGUGACACAGCUAG 19

RESULT 365

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 885 UCACAGCAAGCAUGAAA 903
|||||
Db 1 UCACAGCAAGCAUGAAA 19

RESULT 361
AEA02174
ID AEA02174 standard; RNA; 19 BP.
XX
AC AEA02174;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 58.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 58; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC disease, acthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 8 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 UGCCUCCUGAGACUCC 1047
|||||
Db 1 UGCCUCCUGAGACUCC 19

RESULT 362
AEA02180
ID AEA02180 standard; RNA; 19 BP.
XX
AC AEA02180;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 64.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 64; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 9 C; 1 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1137 CUCACCAAGUUAACCUCA 1155
|||||

SEQ Sequence 19 BP; 4 A; 5 C; 3 G; 0 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 723 UAUGCCUGUCCACCAUUG 741
Db 1 UAUGCCUGUCCACCAUUG 19
RESULT 359
AEA02164
ID AEA02164 standard; RNA; 19 BP.
XX AEA02164;
AC AEA02164;
XX 28-JUL-2005 (first entry)
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 48.
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 48.
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX WO2005045040-A2.
PN 19-MAY-2005.
XX 19-MAY-2005.
PD 19-MAY-2005.
XX 20-AUG-2004; 2004WO-US027367.
PF 20-AUG-2004; 2004WO-US027367.
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00825966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
PI Richards I, Macswigen J;
XX
PI WPI; 2005-356237/36.
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 48; 184bp; English.
PS
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 4 A; 6 C; 6 G; 0 T; 3 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 849 CACGGGACAGUUCUGAGC 867
Db 1 CACGGGACAGUUCUGAGC 19
RESULT 360
AEA02166
ID AEA02166 standard; RNA; 19 BP.
XX AEA02166;
AC AEA02166;
XX 28-JUL-2005 (first entry)
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 50.
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 50.
XX Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX WO2005045040-A2.
PN 19-MAY-2005.
XX 19-MAY-2005.
PD 19-MAY-2005.
XX 20-AUG-2004; 2004WO-US027367.
PF 20-AUG-2004; 2004WO-US027367.
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00825966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
PI Richards I, Macswigen J;
XX
PI WPI; 2005-356237/36.
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 50; 184bp; English.
PS
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 19 BP; 10 A; 4 C; 3 G; 0 T; 2 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;

CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP, 3 A; 9 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 147 CUCCUCUCCAGCGUACC 165
Db 1 CUCCUCUCCAGCGUACC 19
RESULT 357
AEA02151
ID AEA02151 standard; RNA; 19 BP.
XX
AC AEA02151;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 35.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 35; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX

CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP, 3 A; 3 C; 4 G; 0 T; 9 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 615 GUUCUGCAUAUACUUGGU 633
Db 1 GUUCUGCAUAUACUUGGU 19
RESULT 358
AEA02157
ID AEA02157 standard; RNA; 19 BP.
XX
AC AEA02157;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 41.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neutroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 41; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

CC	Cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
XX	Sequence 19 BP; 6 A; 4 C; 5 G; 0 T; 4 U; 0 Other;
SO	
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative	6; Mismatches 0; Indels 0; Gaps 0
Oy	1659 CACUUCAGAGUCGUCG 1677
Db	19 CACUUCAGAGUCGUCG 1
RESULT 355	
AEAO2312/C	
ID	AEAO2312 standard; RNA; 19 BP.
XX	
AC	AEAO2312;
XX	
DT	28-JUL-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 196.
XX	
KM	Respiratory-Gen.; Antiasthmatic; Anti-allergic; Anti-inflammatory;
KM	Neuroprotective; Nootropic; Uropeptic;
KM	chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM	sinusitis; inflammation; allergy; cystic fibrosis; Alzheimer's disease;
KM	micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM	siRNA; RNA interference; gene silencing; short interfering RNA.
XX	
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
PI	Richards I, Macswiggen J;
XX	
DR	WPI; 2005-356237/36.
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
XX	
PS	Claim 33; SEQ ID NO 196; 184bp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siNA molecule, compounds, compositions, and methods are

Query Match	1.1*	Score 19	DB 1	Length 19
Best Local Similarity	63.2%	Pred. No. 1.6e+02		
Matches 12	Conservative 7	Mismatches 0	Indels 0	Gaps 0
Sequence 19 BP; 7 A; 4 C; 4 G; 0 T; 4 U; 0 Other;				
1731 GUCCGUCAUUUUCCACAAAG 1749				
19 GTCGGTCATTTTCCACAAAG 1				
RESULT 356				
AEAO2125				
ID AEAO2125	standard; RNA;	19 BP.		
AC AEAO2125;				
XX				
XX				
DT 28-JUL-2005	(first entry)			
XX				
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 9.				
XX				
KW Respiratory-Gen.; Antiaslthmatic; Antiallergic; Antiinflammatory;				
XX				
KW Neutropoietic; Nootropic; Trophic;				
XX				
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;				
XX				
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;				
XX				
KW microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;				
XX				
KW siRNA; RNA interference; gene silencing; short interfering RNA.				
XX				
OS Synthetic.				
XX				
PN WO2005045040-A2.				
XX				
PD 19-MAY-2005.				
XX				
PF 20-AUG-2004; 2004WO-US027367.				
XX				
PR 23-OCT-2003; 2003US-00693059.				
XX				
PR 24-NOV-2003; 2003US-00720448.				
XX				
PR 03-DEC-2003; 2003US-00727780.				
XX				
PR 14-JAN-2004; 2004US-00757803.				
XX				
PR 10-FEB-2004; 2004US-00780447.				
XX				
PR 13-FEB-2004; 2004US-00798090.				
XX				
PR 11-MAR-2004; 2004US-00826966.				
XX				
PR 16-APR-2004; 2004WO-US013456.				
XX				
PR 30-APR-2004; 2004WO-US016380.				
XX				
PR 24-MAY-2004; 2004US-00919866.				
XX				
PA (SIRN-) SIRNA THERAPEUTICS INC.				
XX				
PI Richards I, Macswigen J;				
XX				
PI WPI, 2005-356237/36.				
XX				
PT New short interfering nucleic acid molecule that directs cleavage of a				
XX				
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing				
XX				
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary				
XX				
PT disease.				
XX				
PS Claim 33, SEQ ID NO 9, 184pp; English.				
XX				
CC The invention relates to a chemically synthesized double stranded short				
XX				
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a				
XX				
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference				
XX				
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are				
XX				
CC useful for treating or preventing respiratory and pulmonary diseases,				
XX				
CC disorders, and/or conditions, including chronic obstructive pulmonary				

PS Claim 33; SEQ ID NO 181; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 1 A; 5 C; 8 G; 0 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1461 GAAAGCGGCCAGACCUC 1479
Db 19 GAAAGCGGCCAGACCCTC 1
XX
RESULT 353
AEA02307/c
ID AEA02307 standard; RNA; 19 BP.
XX
AC AEA02307;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 191.
XX
KW Respiratory-Gen.; Antiasmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 191; 184pp; English.
XX

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 2 A; 1 C; 6 G; 0 T; 10 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1641 CAACAAACAUUCGAAACC 1659
Db 19 CAACAAACAUUCGAAACC 1
XX
RESULT 354
AEA02308/c
ID AEA02308 standard; RNA; 19 BP.
XX
AC AEA02308;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 192.
XX
KW Respiratory-Gen.; Antiasmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 192; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC

PT Cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 161; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 5 A; 6 C; 6 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 1101 CGGCGCAAGCUCGCGGU 1119
DB 19 CGTGCTCAAGCTTCGGGT 1
XX
RESULT 351
AEA02290/C
ID AEA02290 standard; RNA; 19 BP.
XX
AC AEA02290;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 174.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micronutrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richard I. Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary

PT disease.
XX
XX Claim 33; SEQ ID NO 174; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 19 BP; 3 A; 7 C; 4 G; 0 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1335 CUCAGUGGUAAGACAGC 1353
DB 19 CTCAGTGGGTAAAGACAGC 1
XX
RESULT 352
AEA02297/C
ID AEA02297 standard; RNA; 19 BP.
XX
AC AEA02297;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 181.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM micronutrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richard I. Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

XX	WPI, 2005-356237/36.
DR	
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
XX	
XX	
PS	Claim 33; SEQ ID NO 99; 184bp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SQ	Sequence 19 BP; 3 A; 7 C; 6 G; 0 T; 3 U; 0 Other;
	Query Match 1.1%; Score 19; DB 1; Length 19;
	Best Local Similarity 100.0%; Pred. NO. 1.6e+02;
	Matches 19; Conservative 0; Mismatches 0; Gaps 0;
OY	1753 GCACCCGAGCAGGCCUUGU 1771
Db	1 GCACCCGAGCAGGCCUUGU 19
RESULT 349	
AEA02236/C	
ID	AEA02236 standard; RNA; 19 BP.
AC	AEA02236;
XX	
DT	28-JUN-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 120.
XX	
KW	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Drogabatic;
KW	Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KW	micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW	siRNA; RNA interference; gene silencing; short interfering RNA.
XX	
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00780890.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
PI	Richards I, Macswigen J;
XX	
RR	WPI, 2005-356237/36.

XX	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PR	disease.
XX	
PS	Claim 33; SEQ ID NO 120; 184pp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	diseases, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SQ	Sequence 19 BP; 6 A; 3 C; 4 G; 0 T; 6 U; 0 Other;
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative	6; Mismatches 0; Indels 0; Gaps 0;
OY	363 AAUGAATCUCGUUACGACC 381
DB	19 AATGAATCTGTTCAGACC 1
	::
	::
RESULT 350	
AEA02277/c	
ID	AEA02277 standard; RNA; 19 BP.
XX	
AC	AEA02277;
XX	
XX	28-JUL-2005 (first entry)
DT	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 161.
XX	
KW	Respiratory-Gem.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Uropathic;
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzheimer disease;
KW	mucutition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW	siRNA; RNA interference; gene silencing; short interfering RNA.
XX	
OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
XX	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00727780.
PR	14-JAN-2004; 2004US-00757803.
PR	10-FEB-2004; 2004US-053480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00826966.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
PI	Richards I, Macswigen J;
XX	
DR	WPJ; 2005-356237/36.
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a

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XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 71; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 7 A; 5 C; 2 G; 0 T; 5 U; 0 Other;
XX
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      1263 AAAAAGCUCUCCACGCUU 1281
DB      1 AAAAAGCUCUCCACGCUU 19
RESULT 347
ID AEA02194
AC AEA02194;
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 78.
XX DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neutroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.

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XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX PS Claim 33; SEQ ID NO 78; 184pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX SQ Sequence 19 BP; 3 A; 4 C; 7 G; 0 T; 5 U; 0 Other;
XX
Query Match      1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      1389 GGCAGAGAGGUTUGCUCUG 1407
DB      1 GGCAGAGAGGUTUGCUCUG 19
RESULT 348
ID AEA02215
AC AEA02215;
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 99.
XX DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neutroprotective; Nootropic; Uropathic;
XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX KW microtution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX OS Synthetic.
XX PN WO2005045040-A2.
XX PD 19-MAY-2005.
XX PF 20-AUG-2004; 2004WO-US027367.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Richards I, Macswiggen J;

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PR 30-APR-2004; 2004WO-US013456.
PR 18-APR-2004; 2004US-00826966.
PR

PR 17-AUG-2004; 2004US-00919866.

PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00780490.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004US-00757803.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 5; 184bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 2 A; 8 C; 7 G; 0 T; 2 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 75 CGAUGCAGGCGUGCCCCCG 93
 Db 1 CGAUGCAGGCGUGCCCCCG 19
 RESULT 343
 AEA02142
 ID AEA02142 standard; RNA; 19 BP.
 XX
 AC AEA02142;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 26.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 26; 184bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 19 BP; 4 A; 5 C; 4 G; 0 T; 6 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 453 CAGCAUGCCUCUGUUAUG 471
 Db 1 CAGCAUGCCUCUGUUAUG 19
 RESULT 344
 AEA02148
 ID AEA02148 standard; RNA; 19 BP.
 XX
 AC AEA02148;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 32.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.

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PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 168; 84bp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 1 A; 8 C; 5 G; 0 T; 5 U; 0 Other;
SQ
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 94.7%; Pred. No. 1.6e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1227 GGCCGAGAGAGCGUGAC 1245
DB |||||
19 GGCCGAGAGAGCGTGCAC 1
RESULT 341
ADM27889/c
XX ADM27889 standard; RNA; 19 BP.
XX
XX ADM27889;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #186.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
XX
XX US2005014172-A1.
PN
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
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PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 186; 84bp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 3 A; 3 C; 6 G; 0 T; 7 U; 0 Other;
SQ
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 84.2%; Pred. No. 1.6e+02;
XX Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1551 UGACAGCGUACUACCCAA 1569
DB :|||:|
19 TGACAGCTCATACCCAA 1
RESULT 342
AEA02121
XX AEA02121 standard; RNA; 19 BP.
XX
XX AEA02121;
AC
XX
XX 28-JUL-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 5.
DE
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropanic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX
XX WO2005045040-A2.
PN
XX
XX 19-MAY-2005.
PD
XX
XX 20-AUG-2004; 2004WO-US027367.
PF
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
```

XX Disclosure; SEQ ID NO 145; 84bp; English.

PS The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the

CC presence of nucleotides having a 2-hydroxy group for mediating RNA

CC interference. (II) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

CC Alzheimer's disease or urinary incontinence. (II) has increased resistance

CC towards nuclease. Double stranded short interfering nucleic acid molecule

CC was produced by solid phase oligonucleotide synthesis method. This

CC sequence represents an example of a siRNA molecule of the invention.

CC

XX Sequence 19 BP; 1 A; 8 C; 3 G; 0 T; 7 U; 0 Other;

SO

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 94.7%; Pred. No. 1.6e+02;

Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 813 UGGGACAGAGCAGACAGA 831

Db 19 TCGGACAGAGCAGACAGA 1

RESULT 339

ADM27852/C

ID ADM27852 standard; RNA; 19 BP.

XX ADM27852;

DT 07-APR-2005 (first entry)

XX Cholinergic receptor muscarinic 3 gene targeted siRNA #149.

DE

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;

KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

KM incontinence; ss.

XX Synthetic.

OS

XX US2005014172-A1.

PN

XX 20-JAN-2005.

PD

XX 11-MAR-2004; 2004US-00798090.

PF

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003WO-US005346.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGGEN J.

XX Richards I, Mcswigen J;

PI

XX MPI; 2005-090672/10.

DR

XX Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PT RNA through RNA interference, useful for treating asthma.

XX

PS Disclosure; SEQ ID NO 149; 84bp; English.

XX

CC The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the

CC presence of nucleotides having a 2-hydroxy group for mediating RNA

CC interference. (II) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

CC Alzheimer's disease or urinary incontinence. (II) has increased resistance

CC towards nuclease. Double stranded short interfering nucleic acid molecule

CC was produced by solid phase oligonucleotide synthesis method. This

CC sequence represents an example of a siRNA molecule of the invention.

CC

XX Sequence 19 BP; 2 A; 3 C; 4 G; 0 T; 10 U; 0 Other;

SO

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 1.6e+02;

Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 885 UCAACGCAAGCAUGCAA 903

Db 19 TCAACGCAAGCAATGAAA 1

RESULT 340

ADM27871/C

ID ADM27871 standard; RNA; 19 BP.

XX ADM27871;

DT 07-APR-2005 (first entry)

XX Cholinergic receptor muscarinic 3 gene targeted siRNA #166.

DE

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;

KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

KM incontinence; ss.

XX Synthetic.

OS

XX US2005014172-A1.

PN

XX 20-JAN-2005.

PD

XX 11-MAR-2004; 2004US-00798090.

PF

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003WO-US005346.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 6 A; 6 C; 6 G; 0 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 417 GGCGGUGAGCCUCGCGCU 435
Db 19 GGCGTGTGACCTCGGCTT 1
|||:|||||:|||||:
ID ADW27845/c
XX ADW27845 standard; RNA; 19 BP.
AC
XX ADW27845;
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #142.
XX
KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 142; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2'-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 4 A; 4 C; 2 G; 0 T; 9 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 759 GAUCUUAAGGAAACUGAA 777
Db 19 GATCTATTAAGGAAACTGAA 1
|||:|||||:|||||:
ID ADW27848/c
XX ADW27848 standard; RNA; 19 BP.
AC
XX ADW27848;
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #145.
XX
KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.

DB 1 CUUCAUCAUCACUUGACC 19

RESULT 335
ID ADM27801 standard; RNA; 19 BP.

AC ADM27801;
DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #98.

KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.

OS Synthetic.
XX US2005014172-A1.

PD 20-JAN-2005.
XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-036782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.

PI Richards I, Mcswigen J;
XX WPI; 2005-090672/10.

DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.

XX Disclosure; SEQ ID NO 98; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX Sequence 19 BP; 3 A; 9 C; 7 G; 0 T; 0 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1749 GCGCGACCCGAGAGGCC 1767
|||||
DB 1 GCGCGACCCGAGAGGCC 19

RESULT 336
ID ADM27826/c
ID ADM27826 standard; RNA; 19 BP.

AC ADM27826;
DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #123.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.

OS Synthetic.
XX US2005014172-A1.

PD 20-JAN-2005.
XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-036782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.

PI Richards I, Mcswigen J;
XX WPI; 2005-090672/10.

DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.

XX Disclosure; SEQ ID NO 123; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM cholinergic; uteropic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KV hypertension; emphysema; irritable bowel syndrome; Alzheimer disease;
XX incontinence; ss.
OS Synthetic.

PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX

PF 11-MAR-2004; 2004US-00798090.
XX

PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-FEB-2003; 2003US-0043216P.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-0044485P.
PR 23-OCT-2003; 2003US-0065905P.
PR 24-NOV-2003; 2003US-0072044P.
PR 14-JAN-2004; 2004US-0075780J.
XX

PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX

PI Richards I, Mcswigen J;
XX

DR WPI; 2005-090672/10.
XX

PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX

PS Disclosure; SEQ ID NO 31; 84pp; English.
XX

The invention relates to a chemically synthesized double stranded short
interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
where each strand of (I) has 19-23 nucleotides, and does not require the
presence of nucleotides having a 2-hydroxy group for mediating RNA
interference. (II) is useful for treating diseases e.g., asthma, allergic
rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
Alzheimer's disease or urinary incontinence. (I) has increased resistance
toward nuclease. Double stranded short interfering nucleic acid molecule
was produced by solid phase oligonucleotide synthesis method. This
sequence represents an example of a siRNA molecule of the invention.

SQ Sequence 19 BP; 7 A; 3 C; 7 G; 0 T; 2 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 543 AACAAAGAGAGCGGUGUG 561
DB |||||||
 1 AAACAAGAAGACGGUGUG 19

RESULT_334
ADW27787 standard; RNA; 19 BP.

XX AD#27787;
XX
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #84.
XX
XX gene expression; antiaesthetic; anti-allergic; anti-inflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-0042716P.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI, 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 84; 84dp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 4 A; 7 C; 2 G; 0 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC toward nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 4 A; 1 C; 9 G; 0 T; 5 U; 0 Other;

QY	1137	CUCCACCAAGUTACCCUCA	1155
		: :: :	
Db	19	CTCCACCAAGTTACCTCA	1

AC	ADM27869;
XX	
DT	07-APR-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 gene targeted siRNA #166.

KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM neurotic; uterachic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.

OS Synthetic.

PN US2005014172-A1.

PD 20-JAN-2005

11-MAR-2004; 2004US-00798090.

AA
PR 20-FEB-2002; 2002US-0358580P.

	PR	11-MAR-2002;	2002US-0363124P.
	PR	20-MAY-2002;	2002WO-US015876.
	PR	06-JUN-2002;	2002US-0386782P.
	PR	29-AUG-2002;	2002US-0406784P.
	PR	05-SEP-2002;	2002US-0408378P.
	PR	09-SEP-2002;	2002US-0409293P.
	PR	15-JAN-2003;	2003US-0440129P.
	PR	20-FEB-2003;	2003WO-US005028.
	PR	20-FEB-2003;	2003WO-US005346.
	PR	30-APR-2003;	2003US-0042716O.
	PR	23-MAY-2003;	2003US-00444853.
	PR	23-OCT-2003;	2003US-00633059.
	PR	24-NOV-2003;	2003US-00720448.
	PR	14-JAN-2004;	2004US-00757803.
	XX		
	PA	(RICH/) RICHARDS I.	
	PA	(MCSW/) MCSWIGGEN J.	
	PI	Richards I,	Mcswigen J;
	DR	WPI,	2005-090672/10.
	XX		
	PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.	
	PS	Disclosure; SEQ ID NO 166; 84bp; English.	
	XX		
	CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasooconstruction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.	
	CC		
	XX	Sequence 19 BP; 4 A; 10 C; 1 G; 0 T; 4 U; 0 Other;	
	SQ		
		Query Match	1.1%; Score 19; DB 1; Length 19;
		Best Local Similarity	78.9%; Pred. No. 1.6e+02;
		Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;	
Oy		1191 GAUGCUGACUUGAGAGG 1209 : :: 19 GATGGTGCATTGTGAGAAGG 1	
Dd			
	RESULT 331		
	ADMW27896/C		
ID	ADMW27896 standard; RNA; 19 BP.		
AC			
XX	ADMW27896;		
DT	07-APR-2005 (first entry)		
DE			
XX	Cholinergic receptor muscarinic 3 gene targeted siRNA #193.		
KW	gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uterine; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hyperextension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.		
XX			
OS	Synthetic.		
NN	US2005014172-A1.		

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 507 CAUACAGAGGCGCCUACAG 525
|||||
DB 1 CAUACAGAGGCGCCUACAG 19

RESULT 324
ADM27773
ID ADM27773 standard; RNA; 19 BP.
XX
XX ADM27773;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #70.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX OS
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 70; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX SQ Sequence 19 BP; 4 A; 4 C; 6 G; 0 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1245 CGAUGAGGCGAGUUUCCA 1263
|||||
DB 1 CGAUGAGGCGAGUUUCCA 19

RESULT 325
ADM27779
ID ADM27779 standard; RNA; 19 BP.
XX
XX ADM27779;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #76.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX OS
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 76; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

ID ADW27730 standard; RNA; 19 BP.
XX
AC ADW27730;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #27.
XX
KW gene expression; antisthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0409293P.
PR 09-SEP-2002; 2002US-0408378P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003US-05005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 27; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 4 A; 5 C; 4 G; 0 T; 6 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

471 GAUUCUUCUGUCACG 489

Db |||||
1 GAUUCUUCUGUCACG 19
RESULT 323
ADW27732
ID ADW27732 standard; RNA; 19 BP.
XX
AC ADW27732;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #29.
XX
KW gene expression; antisthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003US-05005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 29; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 4 A; 8 C; 5 G; 0 T; 2 U; 0 Other;

KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.
XX Synthetic.
XX OS
XX PN US2005014172-A1.
XX PD 20-JAN-2005.
XX PF 11-MAR-2004; 2004US-00798090.
XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 20-MAY-2002; 2002WO-US015876.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 09-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PR 20-FEB-2003; 2003WO-US005028.
XX PR 20-FEB-2003; 2003WO-US005346.
XX PR 30-APR-2003; 2003US-00427160.
XX PR 23-MAY-2003; 2003US-00444853.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 14-JAN-2004; 2004US-00757803.
XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX PI Richards I, Mcswiggen J;
XX DR WPI; 2005-090672/10.
XX PT Novel chemically synthesized double stranded short interfering nucleic
XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX PT RNA through RNA interference, useful for treating asthma.
XX PS Disclosure; SEQ ID NO 162; 84pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX CC where each strand of (I) has 19-23 nucleotides, and does not require the
XX CC presence of nucleotides having a 2-hydroxy group for mediating RNA
XX CC interference. (I) is useful for treating diseases e.g., asthma, allergic
XX CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX CC towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX CC sequence represents an example of a siRNA molecule of the invention.
XX SQ Sequence 19 BP; 3 A; 1 C; 9 G; 0 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 84.2%; Pred. No. 1.6e+02;
XX Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1119 UCACGACCAUCCUCCAC 1137
XX :|||||:|||||
XX Db 19 TCACGACCACTCTCAAC 1
XX
XX RESULT 321
XX ADM27888/c
XX ID ADM27888 standard; RNA; 19 BP.
XX XX
XX AC ADM27888;
XX XX
XX DT 07-APR-2005 (first entry)
XX XX

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #185.
XX
XX KW gene expression; antiallergic; antiinflammatory; CNS-Gen.;
XX KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX KW nootropic; uterapathic; short interfering RNA; RNA interference; siRNA;
XX KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX KW incontinence; ss.
XX OS Synthetic.
XX PN US2005014172-A1.
XX PD 20-JAN-2005.
XX PF 11-MAR-2004; 2004US-00798090.
XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 20-MAY-2002; 2002WO-US015876.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 09-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PR 20-FEB-2003; 2003WO-US005028.
XX PR 20-FEB-2003; 2003WO-US005346.
XX PR 30-APR-2003; 2003US-00427160.
XX PR 23-MAY-2003; 2003US-00444853.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 14-JAN-2004; 2004US-00757803.
XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX PI Richards I, Mcswiggen J;
XX DR WPI; 2005-090672/10.
XX PT Novel chemically synthesized double stranded short interfering nucleic
XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX PT RNA through RNA interference, useful for treating asthma.
XX PS Disclosure; SEQ ID NO 185; 84pp; English.
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX CC where each strand of (I) has 19-23 nucleotides, and does not require the
XX CC presence of nucleotides having a 2-hydroxy group for mediating RNA
XX CC interference. (I) is useful for treating diseases e.g., asthma, allergic
XX CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX CC towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX CC sequence represents an example of a siRNA molecule of the invention.
XX SQ Sequence 19 BP; 8 A; 4 C; 4 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 57.9%; Pred. No. 1.6e+02;
XX Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1533 UCUGGUAACACCUUUUGU 1551
XX :|||:|||||:|||||
XX Db 19 TCTGTGAACACCTTTGT 1
XX
XX RESULT 322
XX ADM27730

PR 20-FEB-2002; 2002US-0358580P-
PR 11-MAR-2002; 2002US-0363124P-
PR 20-MAY-2002; 2002WO-US015876-
PR 06-JUN-2002; 2002US-0386782P-
PR 29-AUG-2002; 2002US-0406784P-
PR 05-SEP-2002; 2002US-0408378P-
PR 09-SEP-2002; 2002US-0409293P-
PR 15-JAN-2003; 2003US-0440129P-
PR 20-FEB-2003; 2003WO-US005028-
PR 20-FEB-2003; 2003WO-US005346-
PR 30-APR-2003; 2003US-00427160-
PR 23-MAY-2003; 2003US-00444853-
PR 23-OCT-2003; 2003US-00693059-
PR 24-NOV-2003; 2003US-00720448-
PR 14-JAN-2004; 2004US-00757803-
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 155; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 3 A; 7 C; 4 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 84.2%; Pred. No. 1.6e+02;
XX Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
XX
XX 993 CAGCAGCAGUGACAGUGG 1011
XX |||||:|||||:|||||:
XX 19 CAGCAGCAGTGCAGCTTGG 1
XX
XX RESULT 319
XX ADMW27864/c
XX ID ADMW27864 standard; RNA; 19 BP.
XX
XX ADMW27864;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #161.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX OS

PN US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P-
XX 11-MAR-2002; 2002US-0363124P-
XX 20-MAY-2002; 2002WO-US015876-
XX 06-JUN-2002; 2002US-0386782P-
XX 29-AUG-2002; 2002US-0406784P-
XX 05-SEP-2002; 2002US-0408378P-
XX 09-SEP-2002; 2002US-0409293P-
XX 15-JAN-2003; 2003US-0440129P-
XX 20-FEB-2003; 2003WO-US005028-
XX 20-FEB-2003; 2003WO-US005346-
XX 30-APR-2003; 2003US-00427160-
XX 23-MAY-2003; 2003US-00444853-
XX 23-OCT-2003; 2003US-00693059-
XX 24-NOV-2003; 2003US-00720448-
XX 14-JAN-2004; 2004US-00757803-
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 161; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 5 A; 6 C; 6 G; 0 T; 2 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 73.7%; Pred. No. 1.6e+02;
XX Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1101 CGUGCUCAGCUCUCCGGG 1119
XX ||:|||||:|||||:
XX 19 CGGCTCAGAGCTTCCGGGT 1
XX
XX RESULT 320
XX ADMW27865/c
XX ID ADMW27865 standard; RNA; 19 BP.
XX
XX ADMW27865;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #162.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX

PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 89; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 3 A; 6 C; 4 G; 0 T; 6 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1587. CUACUGCGUGUCUACUAC 1605
 Db 1 CUACUGCGUGUCUACUAC 19
 XX
 RESULT 317
 ID ADM27825/c
 XX ADM27825 standard; RNA; 19 BP.
 AC ADM27825;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #122.
 XX
 KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 122; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 5 A; 7 C; 3 G; 0 T; 4 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 399 AUGGCGCUNAGGACUUG 417
 Db 19 AUGGCGCCTTAGGGAACCTTG 1
 XX
 RESULT 318
 ID ADM27858/c
 XX ADM27858 standard; RNA; 19 BP.
 AC ADM27858;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #155.
 XX
 KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX

PA (MCSW/) MCSWIGGEN J.

PR	30-APR-2003; 2003US-00427160.
DD	22-MAY-2003; 2003IS-00444853

30-APR-2003; 2003US-00427160.
23-MAY-2003; 2003US-00444853

OY 687 CACCAUACUUGGACA 705
|||||:|||||
Db 19 CACCATTACTTTGGCACA 1

RESULT 311
ADM27850/c
ID ADM27850 standard; RNA; 19 BP.
XX
AC ADM27850;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #147.
XX
KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 147; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimers disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

SO Sequence 19 BP; 3 A; 6 C; 6 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
OY 849 CACGGCAGUUCUGAAGC 867
|||||:|||||
Db 19 CACGGCAGUUCUGAAGC 1

RESULT 312
ADM27892/c
ID ADM27892 standard; RNA; 19 BP.
XX
AC ADM27892;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #189.
XX
KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 189; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

XX Cholinergic receptor muscarinic 3 gene targeted siRNA #119.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-05005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 119; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimers disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 7 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
XX
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 63.2%; Pred. No. 1.6e+02;
XX Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
XX
XX 345 GAUUAUCGGGCAUUAUCA 363
XX ||::|||::|||::|||::|||
XX Db 19 GATTATCGGGGTCATTCA 1
XX
XX RESULT 310

ADW27841/C
ID ADW27841 standard; RNA; 19 BP.
XX
XX
XX ADW27841;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #138.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-05005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 138; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimers disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 6 A; 2 C; 6 G; 0 T; 5 U; 0 Other;
XX
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 68.4%; Pred. No. 1.6e+02;
XX Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
XX

XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
PI
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PT
XX
XX Disclosure; SEQ ID NO 55; 84pp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
CC
XX
SQ Sequence 19 BP; 7 A; 6 C; 5 G; 0 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGUGAGCCAGACCCAC 993
Db 1 GCAGUGAGCCAGACCCAC 19
RESULT 308
ADM27785
ID ADM27785 standard; RNA; 19 BP.
AC
XX ADM27785;
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #82.
DE
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW

KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
XX
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
PI
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PT
XX
XX Disclosure; SEQ ID NO 82; 84pp; English.
PS
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
CC
XX
SQ Sequence 19 BP; 5 A; 8 C; 5 G; 0 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1461 GAAAGCGGCCAGACCCUC 1479
Db 1 GAAAGCGGCCAGACCCUC 19
RESULT 309
ADM27822/C
ID ADM27822 standard; RNA; 19 BP.
AC
XX ADM27822;
XX
XX 07-APR-2005 (first entry)
DT

PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-040129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-0044853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 52; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 2 A; 7 C; 5 G; 0 T; 5 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 921 GUAGGCGCGUGCCACUUC 939
 Db 1 GUAGGCGCGUGCCACUUC 19
 XX
 RESULT 306
 ADW27756
 ID ADW27756 standard; RNA; 19 BP.
 XX
 AC ADW27756;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #53.
 XX
 KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.

XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-040129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-0044853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 53; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 6 A; 6 C; 4 G; 0 T; 3 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 939 CUGGUCACCAACCAAGAGC 957
 Db 1 CUGGUCACCAACCAAGAGC 19
 XX
 RESULT 307
 ADW27758
 ID ADW27758 standard; RNA; 19 BP.
 XX
 AC ADW27758;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #55.
 XX
 KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 OS Synthetic.

PA (MCSW/) MCSWIGGEN J.
 XX
 PI Richards I, Mcswigen J;
 XX
 DR WPI, 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure, SEQ ID NO 133; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 7 A; 5 C; 6 G; 0 T; 1 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 63.2%; Pred. No. 1.6e+02;
 Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
 Oy 597 UUGGCGCCUGCCAUUCUG 615
 Db 19 TTGGGCTCTCGCATCTTG 1
 RESULT 304
 ID ADM27743
 ID ADM27743 standard; RNA; 19 BP.
 XX
 AC ADM27743;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #40.
 XX
 KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA
 PA (MCSW/) MCSWIGGEN J.
 XX
 XX
 PI Richards I, Mcswigen J;
 XX
 DR WPI, 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure, SEQ ID NO 40; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 3 A; 5 C; 3 G; 0 T; 8 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 705 AGCCAUCCGUCGUUUUAU 723
 Db 1 AGCCAUCCGUCGUUUUAU 19
 RESULT 305
 ID ADM27755
 ID ADM27755 standard; RNA; 19 BP.
 XX
 AC ADM27755;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #52.
 XX
 KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

SO Sequence 19 BP; 6 A; 3 C; 4 G; 0 T; 6 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 363 AATGAAUCUGUUUAGGACC 361

DB 19 AATGAAUCUGUUUAGGACC 1

RESULT 302

ADM27830/C

ID ADM27830 standard; RNA; 19 BP.

AC ADM27830;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #127.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.

OS Synthetic.

PN US2005014172-A1.

XX 20-JAN-2005.

PD 11-MAR-2004; 2004US-00798090.

PF 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2003US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PS Disclosure; SEQ ID NO 127; 84pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.

SO Sequence 19 BP; 8 A; 2 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.6e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 489 CUUGACAGACUACUUUCC 507

DB 19 CUUGACAGACUACUUUCC 1

RESULT 303

ADM27836/C

ID ADM27836 standard; RNA; 19 BP.

AC ADM27836;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #133.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.

OS Synthetic.

PN US2005014172-A1.

XX 20-JAN-2005.

PD 11-MAR-2004; 2004US-00798090.

PF 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2003US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

PR (RICH/) RICHARDS I.

XX SQ Sequence 19 BP; 4 A; 1 C; 10 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1191 GAUGGUGACUUGGAGAGG 1209
Db 1 GAUGGUGACUUGGAGAGG 19
RESULT 300
ADM27814/C
ID ADM27814 standard; RNA; 19 BP.
XX ADM27814;
XX
XX 07-APR-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #111.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX PD 20-JAN-2005.
XX
XX PF 11-MAR-2004; 2004US-00798090.
XX
XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 20-MAY-2002; 2002WO-US015876.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 09-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PR 20-FEB-2003; 2003WO-US005028.
XX PR 30-APR-2003; 2003WO-US005346.
XX PR 23-MAY-2003; 2003US-00444853.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 14-JAN-2004; 2004US-00757803.
XX
XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX PI Richards I, Mcswiggen J;
XX
XX DR WPI; 2005-090672/10.
XX
XX PT Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX PS Disclosure; SEQ ID NO 111; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence, (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 8 A; 4 C; 5 G; 0 T; 2 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.6e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
QY 201 AGUGGUCUUGGAGAGG 219
Db 19 AGUGGUCUUGGAGAGG 19
RESULT 301
ADM27823/C
ID ADM27823 standard; RNA; 19 BP.
XX ADM27823;
XX
XX 07-APR-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #120.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX PN 20-JAN-2005.
XX
XX PD 20-JAN-2005.
XX
XX PF 11-MAR-2004; 2004US-00798090.
XX
XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 20-MAY-2002; 2002WO-US015876.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 09-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PR 20-FEB-2003; 2003WO-US005028.
XX PR 30-APR-2003; 2003WO-US005346.
XX PR 23-MAY-2003; 2003US-00444853.
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 14-JAN-2004; 2004US-00757803.
XX
XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX PI Richards I, Mcswiggen J;
XX
XX DR WPI; 2005-090672/10.
XX
XX PT Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX PS Disclosure; SEQ ID NO 120; 84bp; English.
XX

RESULT 298
ID ADW27754 standard; RNA; 19 BP.
XX
AC ADW27754;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #51.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-FEB-2003; 2003WO-US005346.
PR 20-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 51; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 7 A; 5 C; 6 G; 0 T; 1 U; 0 Other;
XX
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred.No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 903 ACCGUCACAGAGGAG 921
|||
Db 1 ACCGUCACAGAGGAG 19
RESULT 299
ADW27770
ID ADW27770 standard; RNA; 19 BP.
XX
AC ADW27770;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #67.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-FEB-2003; 2003WO-US005346.
PR 20-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 67; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX

KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KM incontinence; ss.
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSM/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX DR Novel chemically synthesized double stranded short interfering nucleic
XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX PT RNA through RNA interference, useful for treating asthma.
XX
XX PS Disclosure; SEQ ID NO 23; 84bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX CC where each strand of (I) has 19-23 nucleotides, and does not require the
XX CC presence of nucleotides having a 2-hydroxy group for mediating RNA
XX CC interference. (I) is useful for treating diseases e.g., asthma, allergic
XX CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX CC towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX CC sequence represents an example of a siRNA molecule of the invention.
XX
XX SQ Sequence 19 BP; 4 A; 3 C; 7 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 399 AUGGGCCUAGGGAACUUG 417
XX ||||||||||||||||
XX Db 1 AUGGGCCUAGGGAACUUG 19
XX
XX RESULT 297
XX ADM27748
XX ID ADM27748 standard; RNA; 19 BP.
XX AC ADM27748;
XX XX

DT 07-APR-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #45.
XX
XX KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX KM hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX KM incontinence; ss.
XX
XX Synthetic.
XX
XX OS
XX US2005014172-A1.
XX
XX PN 20-JAN-2005.
XX
XX PD 11-MAR-2004; 2004US-00798090.
XX
XX PF 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSM/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX DR Novel chemically synthesized double stranded short interfering nucleic
XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX PT RNA through RNA interference, useful for treating asthma.
XX
XX PS Disclosure; SEQ ID NO 45; 84bp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX CC where each strand of (I) has 19-23 nucleotides, and does not require the
XX CC presence of nucleotides having a 2-hydroxy group for mediating RNA
XX CC interference. (I) is useful for treating diseases e.g., asthma, allergic
XX CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX CC towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX CC sequence represents an example of a siRNA molecule of the invention.
XX
XX SQ Sequence 19 BP; 2 A; 7 C; 5 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 795 UGUGGCCUGCAAGCCUCU 813
XX ||||||||||||||||
XX Db 1 UGUGGCCUGCAAGCCUCU 19
XX

PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PT
 PS Disclosure; SEQ ID NO 174; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX
 SO Sequence 19 BP; 3 A; 7 C; 4 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 84.2%; Pred. No. 1.6e+02;
 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 1335 CTCAGGCGUAGAGGACG 1353
 DB 19 CTCAGGCGUAGAGGACG 1
 RESULT 295
 ID ADW27713 standard; RNA; 19 BP.
 XX
 AC ADW27713;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #10.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX

OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PT
 PS Disclosure; SEQ ID NO 10; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX
 SO Sequence 19 BP; 4 A; 7 C; 5 G; 0 T; 3 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 165 CACCGAUGACCCUCUGGA 183
 DB 1 CACCGAUGACCCUCUGGA 19
 RESULT 296
 ID ADW27726 standard; RNA; 19 BP.
 XX
 AC ADW27726;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #23.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW

PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 PA (RICH/) RICHARDS I.
 PA (MCSM/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 DR WPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 170; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasooconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule CC was produced by solid phase oligonucleotide synthesis method. This CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 19 BP; 5 A; 2 C; 5 G; 0 T; 7 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 1263 AAAAAGCTUCCAGGCTU 1281
 Db 19 AAAAAGCTTCTCCAGCTT 1
 AC
 XX ADW27874;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #171.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA; KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; KW inflammation; allergy; cystic fibrosis; pulmonary vasooconstriction; KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; KW incontinence; ss.
 KW
 XX OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PE 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-00406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSM/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 DR WPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 171; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasooconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule CC was produced by solid phase oligonucleotide synthesis method. This CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 19 BP; 4 A; 3 C; 7 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 1.6e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 1281 UCCCAUCCAGCTGAGUCA 1299
 Db 19 TCCCATCCAGCTAGAGTCA 1
 AC
 XX ADW27877;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #174.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA; KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; KW inflammation; allergy; cystic fibrosis; pulmonary vasooconstriction; KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; KW incontinence; ss.
 KW
 XX OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX

XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 141; 84pp; English.
 CC
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 SQ Sequence 19 BP; 7 A; 5 C; 2 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 63.2%; Pred. No. 1.6e+02; Mismatches 0; Gaps 0;
 Matches 12; Conservative 7; Indels 0; Gaps 0;
 QY 741 GACUUAUUUUAUACUGAGG 759
 DB 19 GACTATTATTACTGAGG 1
 RESULT 291
 ADW27846/C
 ID ADW27846 standard; RNA; 19 BP.
 AC
 XX ADW27846;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #143.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX Synthetic.
 OS
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX

PA (RICH/) RICHARDS I.
 PA (MCSM/) MCSWIGGEN J.
 XX
 PT Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 143; 84pp; English.
 CC
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 SQ Sequence 19 BP; 3 A; 4 C; 4 G; 0 T; 8 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 84.2%; Pred. No. 1.6e+02; Mismatches 0; Gaps 0;
 Matches 16; Conservative 3; Indels 0; Gaps 0;
 QY 777 AAAGCGUACCAAGAGCTU 795
 DB 19 AAAGCGTACCAAGAGCTT 1
 RESULT 292
 ADW27873/C
 ID ADW27873 standard; RNA; 19 BP.
 AC
 XX ADW27873;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #170.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX Synthetic.
 OS
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 XX

Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 129 UCGAGCAGCUGGCAUUDUC 147
:|||||:|||||:
DB 19 TCGAGCAGCUGGCAATTTC 1

RESULT 287
ADM27817/c
ADM27817 standard; RNA; 19 BP.

AC ADM27817;
XX
XX
DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #114.

XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.

OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 114; 84bp; English.

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This

CC sequence represents an example of a siRNA molecule of the invention.

XX SQ Sequence 19 BP; 6 A; 4 C; 4 G; 0 T; 5 U; 0 Other;

XX Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 255 CACACUCCUGGUAUUDUG 273
|||||:|||||:
DB 19 CAACATCCGTGAATTGTG 1

RESULT 288
ADM27833/c
ADM27833 standard; RNA; 19 BP.

AC ADM27833;
XX
XX
DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #130.

XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.

OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 130; 84bp; English.

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA

XX 07-APR-2005 (first entry)
DT Cholinergic receptor muscarinic 3 gene targeted siRNA #104.
DE
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nontropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSM/) MCSWIGGEN J.
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
DR
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 104; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 2 A; 7 C; 8 G; 0 T; 2 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

RESULT 286
ADW27810/c
ID ADW27810 standard; RNA; 19 BP.
XX
XX AC ADW27810;
XX
XX 07-APR-2005 (first entry)
DT
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #107.
DE
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nontropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSM/) MCSWIGGEN J.
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
DR
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 107; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 5 A; 5 C; 5 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;


```

XX Synthetic.
OS
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00757803.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSM/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX MPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 85; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 6 A; 6 C; 2 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1515 CCCAUAACAUCACUGGCU 1533
XX |||||
XX 1 CCCAUAACAUCACUGGCU 19
XX
XX RESULT 284
XX ADW27798
XX ID ADW27798 standard; RNA; 19 BP.
XX
XX AC ADW27798;
XX
XX DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #95.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX

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XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005346.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00757803.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSM/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX MPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 95; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 10 A; 3 C; 6 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1695 AAAAAGAGCGCAGCAG 1713
XX |||||
XX 1 AAAAAGAGCGCAGCAG 19
XX
XX RESULT 285
XX ADW27807/c
XX ID ADW27807 standard; RNA; 19 BP.
XX
XX AC ADW27807;
XX

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PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 DR WPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 57; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 7 A; 4 C; 4 G; 0 T; 4 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1011 GAACACCAUGAUGCUGCU 1029
 DB 1 GAACACCAUGAUGCUGCU 19
 RESULT 282
 ADM27777
 ID ADM27777 standard; RNA; 19 BP.
 XX
 AC ADM27777;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #74.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.

XX
 XX 11-MAR-2004; 2004US-00798090.
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 DR WPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 74; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 4 A; 7 C; 3 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1317 GACUUCUGACGUCACUCC 1335
 DB 1 GACUUCUGACGUCACUCC 19
 RESULT 283
 ADM27788
 ID ADM27788 standard; RNA; 19 BP.
 XX
 AC ADM27788;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #85.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.

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XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX Richards I, Mcswigen J;
XX WPI: 2005-090672/10.
DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 41; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 4 A; 5 C; 3 G; 0 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 723 UAUCCUGUACCAUUAUG 741
DB 1 UAUCCUGUACCAUUAUG 19
XX
RESULT 280
ADM27757
ID ADM27757 standard; RNA; 19 BP.
XX
AC ADM27757;
XX
DT 07-APR-2005 (first entry)
XX
DB Cholinergic receptor muscarinic 3 gene targeted siRNA #54.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX
XX 20-MAY-2002; 2002WO-US015876.
XX
XX 06-JUN-2002; 2002US-0386782P.
XX
XX 29-AUG-2002; 2002US-0406784P.
XX
XX 05-SEP-2002; 2002US-0408378P.
XX
XX 09-SEP-2002; 2002US-0409293P.
XX
XX 15-JAN-2003; 2003US-0440129P.
XX
XX 20-FEB-2003; 2003WO-US005028.

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PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX Richards I, Mcswigen J;
XX WPI: 2005-090672/10.
DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 54; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 7 C; 5 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 957 CUGAACCAGCUCGAG 975
DB 1 CUGAACCAGCUCGAG 19
XX
RESULT 281
ADM27760
ID ADM27760 standard; RNA; 19 BP.
XX
AC ADM27760;
XX
DT 07-APR-2005 (first entry)
XX
DB Cholinergic receptor muscarinic 3 gene targeted siRNA #57.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX
XX 20-MAY-2002; 2002WO-US015876.

```

PS Disclosure; SEQ ID NO 37; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siNA molecule of the invention.
SQ Sequence 19 BP; 3 A; 4 C; 6 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 651 UCCGGGAGAGUGCUCUCCAU 669
Db 1 UCCGGGAGAGUGCUCUCCAU 19
RESULT 278
ADM27742
XX ID ADM27742 standard; RNA; 19 BP.
XX
XX ADM27742;
XX
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #39.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-0042716P.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;

DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 39; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 5 A; 6 C; 2 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 687 CACCAUACUUGGACACA 705
Db 1 CACCAUACUUGGACACA 19
RESULT 279
ADM27744
XX ID ADM27744 standard; RNA; 19 BP.
XX
XX ADM27744;
XX
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #41.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-0042716P.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.

CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 6 A; 5 C; 6 G; 0 T; 2 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 291 GCAGCUGAAGACGCGUCCAC 309
DB 1 GCAGCUGAAGACGCGUCCAC 19

RESULT 276

ADM27728
ID ADM27728 standard; RNA; 19 BP.

AC ADM27728;
XX

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #25.

XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nontropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.

OS Synthetic.

PN US2005014172-A1.

PD 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00757803.
XX 14-JAN-2004; 2004US-00757803.

PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.

PI Richards I, Mcswigen J;

XX WPI; 2005-090672/10.

DR Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX

PS Disclosure; SEQ ID NO 25; 84pp; English.

CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the

CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX SQ Sequence 19 BP; 4 A; 6 C; 4 G; 0 T; 5 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 435 UGCCAUVGACUACGUGACC 453
DB 1 UGCCAUVGACUACGUGACC 19

RESULT 277

ADM27740
ID ADM27740 standard; RNA; 19 BP.

AC ADM27740;
XX

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #37.

XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nontropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.

OS Synthetic.

PN US2005014172-A1.

PD 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00757803.
XX 14-JAN-2004; 2004US-00757803.

PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.

PI Richards I, Mcswigen J;

XX WPI; 2005-090672/10.

DR Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX

CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the

RESULT 274

ADW27707

ID ADW27707 standard; RNA; 19 BP.

AC ADW27707;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #4.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;

XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

XX inconitnence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002WO-US015876.

XX 06-JUN-2002; 2002US-0386782P.

XX 29-AUG-2002; 2002US-0406784P.

XX 05-SEP-2002; 2002US-0408378P.

XX 09-SEP-2002; 2002US-0409293P.

XX 15-JAN-2003; 2003US-0440129P.

XX 20-FEB-2003; 2003WO-US005028.

XX 20-FEB-2003; 2003WO-US005346.

XX 30-APR-2003; 2003US-00427160.

XX 23-MAY-2003; 2003US-00444853.

XX 23-OCT-2003; 2003US-00693059.

XX 24-NOV-2003; 2003US-00720448.

XX 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.

XX (MCSW/) MCSWIGGEN J.

XX Richards I, Mcswigen J;

XX WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic

XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3

XX RNA through RNA interference, useful for treating asthma.

XX Disclosure; SEQ ID NO 4; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short

XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

XX where each strand of (I) has 19-23 nucleotides, and does not require the

XX presence of nucleotides having a 2-hydroxy group for mediating RNA

XX interference. (I) is useful for treating diseases e.g., asthma, allergic

XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

XX Alzheimer's disease or urinary incontinence. (I) has increased resistance

XX towards nuclease. Double stranded short interfering nucleic acid molecule

XX was produced by solid phase oligonucleotide synthesis method. This

XX sequence represents an example of a siRNA molecule of the invention.

XX Sequence 19 BP; 4 A; 9 C; 3 G; 0 T; 3 U; 0 Other;

XX Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 100.0%; Pred. No. 1.6e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 CUGGAUACACAGCCCUCC 75

Db 1 CUGGAUACACAGCCCUCC 19

RESULT 275

ADW27720

ID ADW27720 standard; RNA; 19 BP.

AC ADW27720;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #17.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;

XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

XX inconitnence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002WO-US015876.

XX 06-JUN-2002; 2002US-0386782P.

XX 29-AUG-2002; 2002US-0406784P.

XX 05-SEP-2002; 2002US-0408378P.

XX 09-SEP-2002; 2002US-0409293P.

XX 15-JAN-2003; 2003US-0440129P.

XX 20-FEB-2003; 2003WO-US005028.

XX 20-FEB-2003; 2003WO-US005346.

XX 30-APR-2003; 2003US-00427160.

XX 23-MAY-2003; 2003US-00444853.

XX 23-OCT-2003; 2003US-00693059.

XX 24-NOV-2003; 2003US-00720448.

XX 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.

XX (MCSW/) MCSWIGGEN J.

XX Richards I, Mcswigen J;

XX WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic

XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3

XX RNA through RNA interference, useful for treating asthma.

XX Disclosure; SEQ ID NO 17; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short

XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

XX where each strand of (I) has 19-23 nucleotides, and does not require the

XX presence of nucleotides having a 2-hydroxy group for mediating RNA

XX interference. (I) is useful for treating diseases e.g., asthma, allergic

XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

XX Alzheimer's disease or urinary incontinence. (I) has increased resistance

XX towards nuclease. Double stranded short interfering nucleic acid molecule

KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 188; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 6 A; 4 C; 6 G; 0 T; 3 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 68.4%; Pred. No. 1.6e+02;
 Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 QY 1587 CUACUGGCUUGUCUACAU 1605
 DB 19 CTACTGGCTGTCTACTATC 1
 XX
 RESULT 273
 ADM27897/c
 ID ADM27897 standard; RNA; 19 BP.
 XX

AC ADM27897;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #194.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 194; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 0 A; 6 C; 3 G; 0 T; 10 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1695 AAAAAGAGGCGCCGACGAG 1713
 DB 19 AAAAAGAGGCGCCGACGAG 1
 XX

PD 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002MO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003MO-US005028.
PR 20-FEB-2003; 2003MO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
PI
DR MPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
PS Disclosure; SEQ ID NO 183; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 6 A; 2 C; 7 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 1497 CUUCAUCACUUGAGCC 1515
Db 19 CTTGATCATCATCTTGAGCC 1
RESULT 271
ADMW27890/c
ID ADMW27890 standard; RNA; 19 BP.
XX
XX ADMW27890;
AC
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #187.
XX
XX gene expression; antispasmodic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uterapathic; short interfering RNA; RNA interference; siRNA.
KW Cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

KM incontinence; ss.
XX
XX Synthetic.
OS
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PP
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002MO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003MO-US005028.
PR 20-FEB-2003; 2003MO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
PI
DR MPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
PS Disclosure; SEQ ID NO 187; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 6 A; 5 C; 4 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 1569 AACCUUUGAUAUCGAGC 1587
Db 19 AACCTTTGGAAATCTGGGC 1
RESULT 272
ADMW27891/c
ID ADMW27891 standard; RNA; 19 BP.
XX
XX ADMW27891;
AC
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #188.

PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 154; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 1 A; 5 C; 6 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 94.7%; Pred. No. 1.6e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX 975 GCAGAUAGCAAGACCAC 993
XX 19 GCAGATGACCAAGACCAC 1
XX
XX RESULT 269
XX ADM27859/c
XX ID ADM27859 standard; RNA; 19 BP.
XX
XX ADM27859;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #156.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX

PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 156; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 4 A; 4 C; 4 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 78.9%; Pred. No. 1.6e+02;
XX Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1011 GAACAAACAUGAGUCGCU 1029
XX 19 GAACAAACAATGATGCTGCT 1
XX
XX RESULT 270
XX ADM27886/c
XX ID ADM27886 standard; RNA; 19 BP.
XX
XX ADM27886;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #183.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX

```
XX
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of Cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 150; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (1) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (1) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (1) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (1) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siNA molecule of the invention.
XX
SQ Sequence 19 BP; 1 A; 6 C; 5 G; 0 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 903 ACGCTCCACAGGAGGAG 921
Db 19 ACGCTCCACAGGAGGAG 1
XX
RESULT 267
ADW27854/c
ID ADW27854 standard; RNA; 19 BP.
XX
AC ADW27854;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #151.
XX
KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PE 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
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PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of Cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 151; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (1) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (1) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (1) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (1) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 5 C; 7 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
OY 921 GUAUGGCCGCGCCACUUC 939
Db 19 GTATGCCGCGCCACUUC 1
XX
RESULT 268
ADW27857/c
ID ADW27857 standard; RNA; 19 BP.
XX
AC ADW27857;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #154.
XX
KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PE 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
```

CC Where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 10 A; 4 C; 3 G; 0 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 885 UCACAGCAGAACGAGAAA 903
DB 1 UCACAGCAGAACGAGAAA 19
|||||
RESULT 265
ADM27839/C
ID ADM27839 standard; RNA; 19 BP.
XX
XX ADM27839;
AC
XX 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #136.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.

XX
PS Disclosure; SEQ ID NO 136; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 6 A; 6 C; 4 G; 0 T; 3 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred.No.1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 651 UCCGGAGAGUGGCUCAU 669
DB 19 TCCGGAGAGTCTTCATT 1
|||||
RESULT 266
ADM27853/C
ID ADM27853 standard; RNA; 19 BP.
XX
XX ADM27853;
AC
XX 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #150.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX
XX Richards I, Mcswigen J;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 183 AGGUCUACCGUCGCGCAA 201
DB 1 AGGUCUACCGUCGCGCAA 19
|||||

RESULT 263
ADMW27746
ID ADMW27746 standard; RNA; 19 BP.
XX
AC ADMW27746;
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #43.
XX
KM gene expression; antiallergic; antiinflammatory; CNS-gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 43; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance

CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 9 A; 2 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 759 GAUCUUAUAGGAAACUGAA 777
DB 1 GAUCUUAUAGGAAACUGAA 19
|||||

RESULT 264
ADMW27753
ID ADMW27753 standard; RNA; 19 BP.
XX
AC ADMW27753;
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #50.
XX
KM gene expression; antiallergic; antiinflammatory; CNS-gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 50; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

XX AC ADM27862;
 XX DT 07-APR-2005 (first entry)
 XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #159.
 XX XX
 XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
 XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
 XX incontinence; ss.
 XX Synthetic.
 XX OS
 XX PN US2005014172-A1.
 XX PD 20-JAN-2005.
 XX PF 11-MAR-2004; 2004US-00798090.
 XX XX
 XX 20-FEB-2002; 2002US-0358580P.
 XX PR 11-MAR-2002; 2002US-0363124P.
 XX PR 20-MAY-2002; 2002WO-US015876.
 XX PR 06-JUN-2002; 2002US-0386782P.
 XX PR 29-AUG-2002; 2002US-0406784P.
 XX PR 05-SEP-2002; 2002US-0408378P.
 XX PR 09-SEP-2002; 2002US-0409293P.
 XX PR 15-JAN-2003; 2003US-0440129P.
 XX PR 20-FEB-2003; 2003WO-US005028.
 XX PR 20-FEB-2003; 2003WO-US005346.
 XX PR 30-APR-2003; 2003US-00427160.
 XX PR 23-MAY-2003; 2003US-00444853.
 XX PR 23-OCT-2003; 2003US-00693059.
 XX PR 24-NOV-2003; 2003US-00720448.
 XX PR 14-JAN-2004; 2004US-00757803.
 XX XX
 XX (RICH/) RICHARDS I.
 XX PA (MCSW/) MCSWIGGEN J.
 XX XX
 XX PI Richards I, Mcswiggen J;
 XX DR WPI; 2005-090672/10.
 XX XX
 XX PT Novel chemically synthesized double stranded short interfering nucleic
 XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 XX PT RNA through RNA interference, useful for treating asthma.
 XX PS Disclosure; SEQ ID NO 159; 84pp; English.
 XX XX
 XX The invention relates to a chemically synthesized double stranded short
 XX CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 XX CC where each strand of (I) has 19-23 nucleotides, and does not require the
 XX CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 XX CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 XX CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 XX CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 XX CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 XX CC towards nuclease. Double stranded short interfering nucleic acid molecule
 XX CC was produced by solid phase oligonucleotide synthesis method. This
 XX CC sequence represents an example of a siRNA molecule of the invention.
 XX SQ
 XX Sequence 19 BP; 3 A; 7 C; 5 G; 0 T; 4 U; 0 Other;
 XX
 XX Query Match 1.1%; Score 19; DB 1; Length 19;
 XX Best Local Similarity 84.2%; Pred. No. 1.6e+02;
 XX Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 1065 GGACATUGGCTCCGAGAGC 1083
 |||||:||||:|||||

Db 19 GGACATUGGCTCCGAGAGC 1
 RESULT 262
 ADM27714
 ID ADM27714 standard; RNA; 19 BP.
 XX XX
 XX ADM27714;
 XX DT 07-APR-2005 (first entry)
 XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #11.
 XX XX
 XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
 XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
 XX incontinence; ss.
 XX Synthetic.
 XX OS
 XX PN US2005014172-A1.
 XX PD 20-JAN-2005.
 XX PF 11-MAR-2004; 2004US-00798090.
 XX XX
 XX 20-FEB-2002; 2002US-0358580P.
 XX PR 11-MAR-2002; 2002US-0363124P.
 XX PR 20-MAY-2002; 2002WO-US015876.
 XX PR 06-JUN-2002; 2002US-0386782P.
 XX PR 29-AUG-2002; 2002US-0406784P.
 XX PR 05-SEP-2002; 2002US-0408378P.
 XX PR 09-SEP-2002; 2002US-0409293P.
 XX PR 15-JAN-2003; 2003US-0440129P.
 XX PR 20-FEB-2003; 2003WO-US005028.
 XX PR 20-FEB-2003; 2003WO-US005346.
 XX PR 30-APR-2003; 2003US-00427160.
 XX PR 23-MAY-2003; 2003US-00444853.
 XX PR 23-OCT-2003; 2003US-00693059.
 XX PR 24-NOV-2003; 2003US-00720448.
 XX PR 14-JAN-2004; 2004US-00757803.
 XX XX
 XX (RICH/) RICHARDS I.
 XX PA (MCSW/) MCSWIGGEN J.
 XX XX
 XX PI Richards I, Mcswiggen J;
 XX DR WPI; 2005-090672/10.
 XX XX
 XX PT Novel chemically synthesized double stranded short interfering nucleic
 XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 XX PT RNA through RNA interference, useful for treating asthma.
 XX PS Disclosure; SEQ ID NO 11; 84pp; English.
 XX XX
 XX The invention relates to a chemically synthesized double stranded short
 XX CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 XX CC where each strand of (I) has 19-23 nucleotides, and does not require the
 XX CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 XX CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 XX CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 XX CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 XX CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 XX CC towards nuclease. Double stranded short interfering nucleic acid molecule
 XX CC was produced by solid phase oligonucleotide synthesis method. This
 XX CC sequence represents an example of a siRNA molecule of the invention.
 XX SQ
 XX Sequence 19 BP; 5 A; 5 C; 5 G; 0 T; 4 U; 0 Other;

KM		hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM		incontinence; ss.
XX		
OS	Synthetic.	
PN	US2005014172-A1.	
XX		
PD	20-JAN-2005.	
PF	11-MAR-2004; 2004US-00798090.	
XX		
PR	20-FEB-2002; 2002US-0358580P.	
PR	11-MAR-2002; 2002US-0363124P.	
PR	20-MAY-2002; 2002WO-US015876.	
PR	06-JUN-2002; 2002US-0386782P.	
PR	29-AUG-2002; 2002US-0406784P.	
PR	05-SEP-2002; 2002US-0408378P.	
PR	09-SEP-2002; 2002US-0409293P.	
PR	15-JAN-2003; 2003US-0440129P.	
PR	20-FEB-2003; 2003WO-US005028.	
PR	20-FEB-2003; 2003WO-US005346.	
PR	30-APR-2003; 2003US-0042716P.	
PR	23-MAY-2003; 2003US-00444853.	
PR	23-OCT-2003; 2003US-00683059.	
PR	24-NOV-2003; 2003US-00720448.	
PR	14-JAN-2004; 2004US-00757803.	
PA	(RICH//) RICHARDS I.	
PA	(MCSW//) MCSWIGGEN J.	
XX		
F1	Richards I, Mcswiggen J;	
DR	WPI; 2005-090672/10.	
PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.	
PS	Disclosure; SEQ ID NO 144; 84bp; English.	
XX		
CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.	
XX		
SEQ	Sequence 19 BP; 5 A; 5 C; 7 G; 0 T; 2 U; 0 Other;	
Query Match	1.1%; Score 19; DB 1; Length 19;	
Best Local Similarity	73.7%; Pred.No.1.6e+02;	
Matches	14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;	
DQ	795 UGUCUGCCUCCAGACCUUCU 813 :: :: :: :: :	
Db	19 TGCTGGCCTGCAGACTTCT 1	
RESULT 260		
ADW27860/C		
ID	ADW27860 standard; RNA; 19 BP.	
XX		
XX	ADW27860;	
DT	07-APR-2005 (first entry)	
XX		
DE	Cholinergic receptor muscarinic 3 gene targeted siRNA #157.	

KW		gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM		nootropic; uterapachic; short interfering RNA; RNA interference; siRNA;
KV		cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KX		inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KY		hypertension; emphysema; irritable bowel syndrome; Alzheimer disease;
LK		inconitence; ss.
OS	Synthetic.	
PN	US2005014172-A1.	
XX		
PD	20-JAN-2005.	
PF	11-MAR-2004; 2004US-00798090.	
PR		
PS	20-FEB-2002; 2002US-0356580P.	
PT	11-MAR-2002; 2002US-0363124P.	
PP	20-MAY-2002; 2002WO-US015876.	
PR	06-JUN-2002; 2002US-0386782P.	
PR	29-AUG-2002; 2002US-0406784P.	
PR	05-SEP-2002; 2002US-0408378P.	
PR	09-SEP-2002; 2002US-0409293P.	
PR	15-JAN-2003; 2003US-0440129P.	
PR	20-FEB-2003; 2003WO-US005028.	
PR	20-FEB-2003; 2003WO-US005346.	
PR	30-APR-2003; 2003US-0042716P.	
PR	23-MAY-2003; 2003US-00444853.	
PR	23-OCT-2003; 2003US-00693059.	
PR	24-NOV-2003; 2003US-00720448.	
PR	14-JAN-2004; 2004US-00757803.	
XX		
PA	(RICH/) RICHARDS I.	
PA	(MCWS/) MCSWIGEN J.	
PI	Richards I, Mcswigen J;	
DR	WPI, 2005-090672/10.	
XX		
PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.	
PS	Disclosure; SEQ ID NO 157; 84pp; English.	
CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,	
CC	where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome,	
CC	Alzheimer's disease or urinary incontinece. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of the invention.	
XX		
SO	Sequence 19 BP; 4 A; 4 C; 8 G; 0 T; 3 U; 0 Other;	
Oy	Query Match 1.1%; Score 19; DB 1; Length 19; Best Local Similarity 78.9%; Pred.No. 1.6e+02; Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;	
DB	1029 UGCCUCCCUGAGAUAUCG 1047 : : : : 19 TGCCCTCGAGAAATC 1	
ID	ADW27862 standard; RNA; 19 BP.	
RESULT_261		
ADW27862/C		

PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 97; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 4 A; 4 C; 4 G; 0 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1731 GUCCGUCAUUUUUCACAG 1749
DB 1 GUCCGUCAUUUUUCACAG 19
RESULT 256
ADM27802
ID ADM27802 standard; RNA; 19 BP.
XX
XX ADM27802;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #99.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; sg.
XX
XX Synthetic.
OS
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 99; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 3 A; 7 C; 6 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1753 GCACCCGAGCAGCCUUGU 1771
DB 1 GCACCCGAGCAGCCUUGU 19
RESULT 257
ADM27835/C
ID ADM27835 standard; RNA; 19 BP.
XX
XX ADM27835;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #132.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; sg.
XX
XX Synthetic.
OS
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0358580P.

PT RNA through RNA interference, useful for treating asthma.
 XX
 XX Disclosure; SEQ ID NO 81; 84pp; English.
 PS
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX
 SQ Sequence 19 BP; 5 A; 4 C; 7 G; 0 T; 3 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1443 GUCCUGGUCAGAGAGAG 1461
 DB 1 GUCCUGGUCAGAGAGAG 19
 RESULT 254
 ADW27789
 ID ADW27789 standard; RNA; 19 BP.
 XX
 AC ADW27789;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #86.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 XX nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
 XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 XX incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 PF
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX

PI Richards I, Mcswigen J;
 XX
 XX WPI; 2005-090672/10.
 DR
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 86; 84pp; English.
 CC
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX
 SQ Sequence 19 BP; 3 A; 4 C; 4 G; 0 T; 8 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1533 UCUGUGGAAACCCUUUGU 1551
 DB 1 UCUGUGGAAACCCUUUGU 19
 RESULT 255
 ADW27800
 ID ADW27800 standard; RNA; 19 BP.
 XX
 AC ADW27800;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #97.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 XX nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
 XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 XX incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 PF
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 XX

CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX SQ Sequence 19 BP; 2 A; 6 C; 6 G; 0 T; 5 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1101 CGUGCUCAGCUCUCGCGU 1119
|||
Db 1 CGUGCUCAGCUCUCGCGU 19

RESULT 252

ADM27769
ID ADM27769 standard; RNA; 19 BP.

AC ADM27769;

XX 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #66.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.

XX OS Synthetic.

XX PN US2005014172-A1.

XX PD 20-JAN-2005.

XX PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.

XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.

XX PI Richards I, Mcswigen J;

XX DR WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.

PS Disclosure; SEQ ID NO 66; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX SQ Sequence 19 BP; 3 A; 3 C; 11 G; 0 T; 2 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1173 GCCUGAGAGAGAGCUCGCG 1191
|||
Db 1 GCCUGAGAGAGAGCUCGCG 19

RESULT 253

ADM27784
ID ADM27784 standard; RNA; 19 BP.

AC ADM27784;

XX 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #81.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.

XX OS Synthetic.

XX PN US2005014172-A1.

XX PD 20-JAN-2005.

XX PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.

XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.

XX PI Richards I, Mcswigen J;

XX DR WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

Db 1 GACUADUUUADACUGAGG 19

|||||

RESULT 250

ADM27749

ID ADM27749 standard; RNA; 19 BP.

XX

AC ADM27749;

XX

DT 07-APR-2005 (first entry)

XX

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #46.

XX

KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;

KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

KM incontinence; ss.

KM

OS Synthetic.

XX

PN US2005014172-A1.

XX

PD 20-JAN-2005.

XX

PF 11-MAR-2004; 2004US-00798090.

XX

PR 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003WO-US005346.

PR 30-APR-2003; 2003US-0042716P.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX

PA (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGEN J.

XX

PI Richards I, Mcswigen J;

XX

DR WPI; 2005-090672/10.

XX

PT Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PT RNA through RNA interference, useful for treating asthma.

XX

PS Disclosure; SEQ ID NO 46; 84pp; English.

XX

XX The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the

CC presence of nucleotides having a 2-hydroxy group for mediating RNA

CC interference. (I) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

CC Alzheimer's disease or urinary incontinence. (I) has increased resistance

CC towards nuclease. Double stranded short interfering nucleic acid molecule

CC was produced by solid phase oligonucleotide synthesis method. This

CC sequence represents an example of a siNA molecule of the invention.

XX

XX Sequence 19 BP; 7 A; 3 C; 8 G; 0 T; 1 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 100.0%; Pred No. 1.6e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 813 UGGGACAGAGCAGAGACA 831

|||||

Db 1 UGGGACAGAGCAGAGACA 19

|||||

RESULT 251

ADM27765

ID ADM27765 standard; RNA; 19 BP.

XX

AC ADM27765;

XX

DT 07-APR-2005 (first entry)

XX

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #62.

XX

KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;

KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

KM incontinence; ss.

KM

OS Synthetic.

XX

PN US2005014172-A1.

XX

PD 20-JAN-2005.

XX

PF 11-MAR-2004; 2004US-00798090.

XX

PR 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003WO-US005346.

PR 30-APR-2003; 2003US-0042716P.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX

PA (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGEN J.

XX

PI Richards I, Mcswigen J;

XX

DR WPI; 2005-090672/10.

XX

PT Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PT RNA through RNA interference, useful for treating asthma.

XX

PS Disclosure; SEQ ID NO 62; 84pp; English.

XX

XX The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the

CC presence of nucleotides having a 2-hydroxy group for mediating RNA

CC interference. (I) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #20.
XX
KM gene expression; antispasmodic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM neotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 20; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimers disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 4 A; 3 C; 5 G; 0 T; 7 U; 0 Other;
OY Query Match 1.1%; Score 19; DB 1; Length 19;
Db Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 345 GAUUAUCCGGGCAUUAUCA 363
|||
1 GAUUAUCCGGGCAUUAUCA 19
RESULT 249
ADM27745

ID ADM27745 standard; RNA; 19 BP.
XX
AC ADM27745;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #42.
XX
KM gene expression; antispasmodic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM neotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 42; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimers disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 2 C; 5 G; 0 T; 7 U; 0 Other;
OY Query Match 1.1%; Score 19; DB 1; Length 19;
Db Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 741 GACUUAUUUAUACUGAGG 759

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EN  US2005014172-A1.
XX
XX  20-JAN-2005.
XX
XX  11-MAR-2004; 2004US-00798090.
XX
XX  20-FEB-2002; 2002US-0358580P.
XX  11-MAR-2002; 2002US-0363124P.
XX  20-MAY-2002; 2002WO-US015876.
XX  06-JUN-2002; 2002US-0386782P.
XX  29-AUG-2002; 2002US-0406784P.
XX  05-SEP-2002; 2002US-0408378P.
XX  09-SEP-2002; 2002US-0409293P.
XX  15-JAN-2003; 2003US-0440129P.
XX  20-FEB-2003; 2003WO-US005028.
XX  20-FEB-2003; 2003WO-US005346.
XX  30-APR-2003; 2003US-00427160.
XX  23-MAY-2003; 2003US-00444853.
XX  23-OCT-2003; 2003US-00693059.
XX  24-NOV-2003; 2003US-00720448.
XX  14-JAN-2004; 2004US-00757803.
XX
XX  (RICH/) RICHARDS I.
XX  (MCSW/) MCSWIGGEN J.
XX
XX  Richards I, Mcswiggen J;
XX
XX  WPI; 2005-090672/10.
XX
XX  Novel chemically synthesized double stranded short interfering nucleic
XX  acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX  RNA through RNA interference, useful for treating asthma.
XX
XX  Disclosure; SEQ ID NO 16; 84pp; English.
XX
XX  The invention relates to a chemically synthesized double stranded short
XX  interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX  cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX  where each strand of (I) has 19-23 nucleotides, and does not require the
XX  presence of nucleotides having a 2-hydroxy group for mediating RNA
XX  interference. (I) is useful for treating diseases e.g., asthma, allergic
XX  rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX  vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX  Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX  towards nuclease. Double stranded short interfering nucleic acid molecule
XX  was produced by solid phase oligonucleotide synthesis method. This
XX  sequence represents an example of a siRNA molecule of the invention.
XX
XX  Sequence 19 BP; 7 A; 3 C; 4 G; 0 T; 5 U; 0 Other;
XX
XX  Query Match 1.1%; Score 19; DB 1; Length 19;
XX  Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX  Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY  273 GUCAUUUAGGUCACACAG 291
DB  1 GUCAUUUAGGUCACACAG 19

RESULT 247
ID  ADW27721
XX  ADW27721 standard; RNA; 19 BP.
XX
XX  ADW27721;
XX
XX  07-APR-2005 (first entry)
XX
XX  Cholinergic receptor muscarinic 3 gene targeted siRNA #18.
XX
XX  gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX  respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX  nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX  cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

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KW  inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX  hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX  incontinence; ss.
XX
XX  Synthetic.
XX
XX  US2005014172-A1.
XX
XX  20-JAN-2005.
XX
XX  11-MAR-2004; 2004US-00798090.
XX
XX  20-FEB-2002; 2002US-0358580P.
XX  11-MAR-2002; 2002US-0363124P.
XX  20-MAY-2002; 2002WO-US015876.
XX  06-JUN-2002; 2002US-0386782P.
XX  29-AUG-2002; 2002US-0406784P.
XX  05-SEP-2002; 2002US-0408378P.
XX  09-SEP-2002; 2002US-0409293P.
XX  15-JAN-2003; 2003US-0440129P.
XX  20-FEB-2003; 2003WO-US005028.
XX  20-FEB-2003; 2003WO-US005346.
XX  30-APR-2003; 2003US-00427160.
XX  23-MAY-2003; 2003US-00444853.
XX  23-OCT-2003; 2003US-00693059.
XX  24-NOV-2003; 2003US-00720448.
XX  14-JAN-2004; 2004US-00757803.
XX
XX  (RICH/) RICHARDS I.
XX  (MCSW/) MCSWIGGEN J.
XX
XX  Richards I, Mcswiggen J;
XX
XX  WPI; 2005-090672/10.
XX
XX  Novel chemically synthesized double stranded short interfering nucleic
XX  acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX  RNA through RNA interference, useful for treating asthma.
XX
XX  Disclosure; SEQ ID NO 18; 84pp; English.
XX
XX  The invention relates to a chemically synthesized double stranded short
XX  interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX  cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX  where each strand of (I) has 19-23 nucleotides, and does not require the
XX  presence of nucleotides having a 2-hydroxy group for mediating RNA
XX  interference. (I) is useful for treating diseases e.g., asthma, allergic
XX  rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX  vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX  Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX  towards nuclease. Double stranded short interfering nucleic acid molecule
XX  was produced by solid phase oligonucleotide synthesis method. This
XX  sequence represents an example of a siRNA molecule of the invention.
XX
XX  Sequence 19 BP; 5 A; 7 C; 1 G; 0 T; 6 U; 0 Other;
XX
XX  Query Match 1.1%; Score 19; DB 1; Length 19;
XX  Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX  Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY  309 CAACUACUUCUCUUAAGC 327
DB  1 CAACUACUUCUCUUAAGC 19

RESULT 248
ID  ADW27723
XX  ADW27723 standard; RNA; 19 BP.
XX
XX  ADW27723;
XX
XX  07-APR-2005 (first entry)
XX

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PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 148; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 5 A; 4 C; 5 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 73.7%; Pred. No. 1.6e+02;
XX Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
OY 867 CUGCAGCAGUACGAACU 885
DB 19 CTGCAGCAGCTACGAACCT 1

```

RESULT 245

ADM27881/C

ID ADM27881 standard; RNA; 19 BP.

XX ADM27881;

XX 07-APR-2005 (first entry)

XX Cholinergic receptor muscarinic 3 gene targeted siRNA #178.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;

XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

XX incontinence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

XX 11-MAR-2004; 2004US-00798090.

```

PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 178; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 2 A; 5 C; 4 G; 0 T; 8 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 89.5%; Pred. No. 1.6e+02;
XX Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 1407 GAAGACCGAGAGCAGAU 1425
DB 19 GAAGACCGAGAGCAGATC 1

```

RESULT 246

ADM27719

ID ADM27719 standard; RNA; 19 BP.

XX ADM27719;

XX 07-APR-2005 (first entry)

XX Cholinergic receptor muscarinic 3 gene targeted siRNA #16.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;

XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

XX incontinence; ss.

XX Synthetic.

XX Richards I, Meswigen J;
 PI WPI, 2005-090672/10.
 DR
 XX Novel chemically synthesized double stranded short interfering nucleic
 XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PT
 XX Disclosure; SEQ ID NO 109; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 19 BP; 3 A; 5 C; 7 G; 0 T; 4 U; 0 Other:
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 84.2%; Pred. No. 1.6e+02;
 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 165 CACCGAGACCCUUGGGA 183
 DB 19 CACCGATGACCCCTGTGGGA 1
 RESULT 243
 ADW27813/C
 ID ADW27813 standard; RNA; 19 BP.
 AC
 XX ADW27813;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #110.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0366782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGEN J.
 XX
 PI Richards I, Meswigen J;
 XX
 DR WPI, 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 110; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 19 BP; 4 A; 5 C; 5 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 1.6e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 183 AGGUCACUACCGUCGCAA 201
 DB 19 AGGTCATACCGCTGTGGCA 1
 RESULT 244
 ADW27851/C
 ID ADW27851 standard; RNA; 19 BP.
 AC
 XX ADW27851;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #148.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 KW
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0366782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

SQ Sequence 19 BP; 5 A; 9 C; 1 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1137 CUCGACCAAGUUAACCCUCA 1155
Db 1 CUCGACCAAGUUAACCCUCA 19

RESULT 241
ADW27799
ID ADW27799 standard; RNA; 19 BP.
AC ADW27799;
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #96.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PR
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J,
XX PI
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PS Disclosure; SEQ ID NO 96; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.

SQ Sequence 19 BP; 7 A; 5 C; 6 G; 0 T; 1 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1713 GCAGUACGACGACGACAG 1731
Db 1 GCAGUACGACGACGACAG 19

RESULT 242
ADW27812/C
ID ADW27812 standard; RNA; 19 BP.
AC ADW27812;
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #109.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PR
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J,
XX PI
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic

SEQ Sequence 19 BP; 4 A; 5 C; 7 G; 0 T; 3 U; 0 Other:
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1065 GGACAUUGGCGUCGAGAGC 1083
DB 1 GGACAUUGGCGUCGAGAGC 19
RESULT 239
ADM27766
ID ADM27766 standard; RNA; 19 BP.
XX ADM27766;
XX 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #63:
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 63; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SEQ Sequence 19 BP; 6 A; 9 C; 1 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1119 UCACAGCACCAUCCUCCAAC 1137
DB 1 UCACAGCACCAUCCUCCAAC 19
RESULT 240
ADM27767
ID ADM27767 standard; RNA; 19 BP.
XX ADM27767;
XX 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #64.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 64; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short

ADW27722
 ID ADW27722 standard; RNA: 19 BP.
 AC ADW27722;
 XX
 XX 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #19.
 XX
 XX gene expression; antisthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX Synthetic.
 OS
 XX US2005014172-A1.
 PN
 XX 20-JAN-2005.
 PD
 XX 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswiggen J;
 PI
 DR WPI; 2005-090672/10.
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX Disclosure; SEQ ID NO 19; 84pp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimers disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX Sequence 19 BP; 1 A; 7 C; 6 G; 0 T; 5 U; 0 Other;
 SQ
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred.No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 327 CCUGGCCUGGCCGAUCUG 345
 Db 1 CCUGGCCUGGCCGAUCUG 19
 RESULT 238
 ADW27763
 ID ADW27763 standard; RNA: 19 BP.
 AC ADW27763;
 XX
 XX 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #60.
 XX
 XX gene expression; antisthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX Synthetic.
 OS
 XX US2005014172-A1.
 PN
 XX 20-JAN-2005.
 PD
 XX 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswiggen J;
 PI
 DR WPI; 2005-090672/10.
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX Disclosure; SEQ ID NO 60; 84pp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimers disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC

KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 167; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 1 A; 6 C; 5 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 94.7%; Pred. No. 1.6e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1209 GAAAGCCGACAGCTGCAG 1227
XX Db 19 GAAAGCCGACAGCTGCAG 1
XX
XX RESULT 236
XX ADW27898/c
XX ID ADW27898 standard; RNA; 19 BP.
XX XX
XX AC ADW27898;
XX XX
XX DT 07-APR-2005 (first entry)

XX
XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #195.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 195; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 1 A; 6 C; 5 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 94.7%; Pred. No. 1.6e+02;
XX Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1713 GCAGUACGACAGAGCAG 1731
XX Db 19 GCAGUACGACAGAGCAG 1
XX
XX RESULT 237

PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JUN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
PI MPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 88; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 4 A; 4 C; 5 G; 0 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 1569 AACUUUGGAUUCUGGCG 1587
1 AACUUUGGAUUCUGGCG 19
XX
XX RESULT 232
XX ADM27795
XX ID ADM27795 standard; RNA; 19 BP.
XX AC ADM27795;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #92.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JUN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JUN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JUN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
PI MPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 92; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 10 A; 6 C; 1 G; 0 T; 2 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 1641 CAACAAACAUUCAGAAC 1659
1 CAACAAACAUUCAGAAC 19
XX
XX RESULT 233
XX ADM27828/c
XX ID ADM27828 standard; RNA; 19 BP.
XX AC ADM27828;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #125.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JUN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX

PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 47; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 6 A; 7 C; 2 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 831 AGAAACUUGUCACCCC 849
DB 1 AGAAACUUGUCACCCC 19
RESULT 230
ADM27780
ID ADM27780 standard; RNA; 19 BP.
XX
AC ADM27780;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #77.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PD 11-MAR-2004; 2004US-00798090.
XX
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 77; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 6 C; 4 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1371 CUCACGAGACCAUCUCG 1389
DB 1 CUCACGAGACCAUCUCG 19
RESULT 231
ADM27791
ID ADM27791 standard; RNA; 19 BP.
XX
AC ADM27791;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #88.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PD 11-MAR-2004; 2004US-00798090.
XX
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX Sequence 19 BP; 3 A; 6 C; 5 G; 0 T; 5 U; 0 Other;

QY Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 237 CUUGUGACCAUCCGCGC 255
1 CUUGUGACCAUCCGCGC 19

RESULT 228

ID ADM27733 standard; RNA; 19 BP.

AC ADM27733;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #30.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.

XX Richards I, Mcswiggen J;

XX WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.

XX Disclosure; SEQ ID NO 30; 84pp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX Sequence 19 BP; 8 A; 6 C; 4 G; 0 T; 1 U; 0 Other;

QY Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 525 GUACGAGCCAAACGACA 543
1 GUACGAGCCAAACGACA 19

RESULT 229

ID ADM27750 standard; RNA; 19 BP.

AC ADM27750;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #47.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.

XX Richards I, Mcswiggen J;

XX WPI; 2005-090672/10.

XX

QY 93 GGGAAACCGUACUACUUC 111
|||||
Db 1 GGGAAACCGUACUACUUC 19

RESULT 226
ADM27710
ID ADM27710 standard; RNA; 19 BP.
XX
XX ADM27710;
AC
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #7.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
DR
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 7; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX
SQ Sequence 19 BP; 4 A; 5 C; 4 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 111 CGGACGCUACAUGUUCU 129
|||||
Db 1 CGGACGCUACAUGUUCU 19

RESULT 227
ADM27717
ID ADM27717 standard; RNA; 19 BP.
XX
XX ADM27717;
AC
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #14.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
DR
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 14; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic

DT 07-APR-2005 (first entry)
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #198.
XX
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 198; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 3 A; 6 C; 7 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 84.2%; Pred. No. 1.6e+02;
XX Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1753 GCACCGAGAGCCCTUGU 1771
XX |||||
XX 19 GCACCGAGAGCCCTTGT 1

RESULT 225
ADW27709
ID ADW27709 standard; RNA; 19 BP.
XX
XX ADW27709;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #6.
XX
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 6; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 4 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 19;
XX Best Local Similarity 100.0%; Pred. No. 1.6e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OS Synthetic.
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PP 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 184; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 2 C; 6 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 1515 CCCAUAACAACUACUGUU 1533
Db 19 CCCATACACATCATGCTT 1
RESULT 223
ADMW27894/C
ID ADMW27894 standard; RNA; 19 BP.
XX
AC ADMW27894;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #191.
XX
KM gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PP 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-0044853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 191; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 2 A; 1 C; 6 G; 0 T; 10 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1641 CACCAAAACATTCAGAAC 1659
Db 19 CACCAAAACATTCAGAAC 1
RESULT 224
ADMW27901/C
ID ADMW27901 standard; RNA; 19 BP.
XX
AC ADMW27901;
XX

PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswigen J;
 XX WPI; 2005-090672/10.
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 173; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 5 A; 3 C; 7 G; 0 T; 4 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 1317 GACUUCUAGCGUACUCC 1335
 DB 19 GACUUCUAGCGUACUCC 1
 RESULT 221
 ADM27879/C
 ID ADM27879 standard; RNA; 19 BP.
 XX
 AC ADM27879;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #176.
 XX
 KW gene expression; antiasthmatic; anti-allergic; anti-inflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 XX US2005014172-A1.
 XX
 XX 20-JAN-2005.
 XX
 XX

PF 11-MAR-2004; 2004US-00798090.
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswigen J;
 XX WPI; 2005-090672/10.
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 176; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 4 A; 4 C; 6 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 1.6e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 1371 CUUCAAGGAAGCCACUCUG 1389
 DB 19 CUUCAAGGAAGCCACUCUG 1
 RESULT 222
 ADM27887/C
 ID ADM27887 standard; RNA; 19 BP.
 XX
 AC ADM27887;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #184.
 XX
 KW gene expression; antiasthmatic; anti-allergic; anti-inflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX

XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, emphysema, irritable bowel syndrome,
 CC vasoconstriction or hypertension, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.

XX Sequence 19 BP; 5 A; 4 C; 6 G; 0 T; 4 U; 0 Other;
 SQ

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1677 GCGUGCCAGUGGACAA 1695
 DB 1 GCGUGCCAGUGGACAA 19
 |||||

RESULT 217
 ADW27819/C
 ID ADW27819 standard; RNA; 19 BP.
 XX
 AC ADW27819;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #116.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 XX 11-MAR-2002; 2002US-0363124P.
 XX 20-MAY-2002; 2002WO-US015876.
 XX 06-JUN-2002; 2002US-0386782P.
 XX 29-AUG-2002; 2002US-0406784P.
 XX 05-SEP-2002; 2002US-0408378P.
 XX 09-SEP-2002; 2002US-0409293P.
 XX 15-JAN-2003; 2003US-0440129P.
 XX 20-FEB-2003; 2003WO-US005028.
 XX 20-FEB-2003; 2003US-00427160.
 XX 30-APR-2003; 2003US-00444853.
 XX 23-MAY-2003; 2003US-00693059.
 XX 23-OCT-2003; 2003US-00720448.
 XX 14-NOV-2003; 2003US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 XX Richards I, Mcswiggen J;
 XX WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX Disclosure; SEQ ID NO 116; 84bp; English.

XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, emphysema, irritable bowel syndrome,
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.

XX Sequence 19 BP; 2 A; 6 C; 5 G; 0 T; 6 U; 0 Other;
 SQ

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 89.5%; Pred. No. 1.6e+02;
 Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 291 GCGCTGGAAGACGGUAC 309
 DB 19 GCGCTGGAAGACGGUAC 1
 |||||

RESULT 218
 ADW27829/C
 ID ADW27829 standard; RNA; 19 BP.
 XX
 AC ADW27829;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #126.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 XX 11-MAR-2002; 2002US-0363124P.
 XX 20-MAY-2002; 2002WO-US015876.
 XX 06-JUN-2002; 2002US-0386782P.
 XX 29-AUG-2002; 2002US-0406784P.
 XX 05-SEP-2002; 2002US-0408378P.
 XX 09-SEP-2002; 2002US-0409293P.
 XX 15-JAN-2003; 2003US-0440129P.
 XX 20-FEB-2003; 2003WO-US005028.
 XX 20-FEB-2003; 2003US-00427160.
 XX 30-APR-2003; 2003US-00444853.
 XX 23-MAY-2003; 2003US-00693059.
 XX 23-OCT-2003; 2003US-00720448.
 XX 14-NOV-2003; 2003US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 XX Richards I, Mcswiggen J;
 XX WPI; 2005-090672/10.

CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 3 A; 4 C; 7 G; 0 T; 5 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1389 GGCCAGAGGUGUCUCUG 1407
Db 1 GGCCAGAGGUGUCUCUG 19
RESULT 215
ADM27783
ID ADM27783 standard; RNA; 19 BP.
XX
XX ADM27783;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #80.
XX
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX
XX Incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
XX 20-JAN-2005.
XX
PD 11-MAR-2004; 2004US-00798090.
XX
PF 20-FEB-2002; 2002US-0358580P.
XX
PR 11-MAR-2002; 2002US-0363124P.
XX
PR 20-MAY-2002; 2002WO-US015876.
XX
PR 06-JUN-2002; 2002US-0386782P.
XX
PR 29-AUG-2002; 2002US-0406784P.
XX
PR 05-SEP-2002; 2002US-0408378P.
XX
PR 09-SEP-2002; 2002US-0409293P.
XX
PR 15-JAN-2003; 2003US-0440129P.
XX
PR 20-FEB-2003; 2003WO-US005028.
XX
PR 20-FEB-2003; 2003WO-US005346.
XX
PR 30-APR-2003; 2003US-00427160.
XX
PR 23-MAY-2003; 2003US-00444853.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
XX
PA (RICH/) RICHARDS I.
XX
PA (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 80; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA

CC interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 8 A; 3 C; 6 G; 0 T; 2 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1425 CACUAGCCGAAAGGAUG 1443
Db 1 CACUAGCCGAAAGGAUG 19
RESULT 216
ADM27797
ID ADM27797 standard; RNA; 19 BP.
XX
XX ADM27797;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #94.
XX
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX
XX Incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
XX 20-JAN-2005.
XX
PD 11-MAR-2004; 2004US-00798090.
XX
PF 20-FEB-2002; 2002US-0358580P.
XX
PR 11-MAR-2002; 2002US-0363124P.
XX
PR 20-MAY-2002; 2002WO-US015876.
XX
PR 06-JUN-2002; 2002US-0386782P.
XX
PR 29-AUG-2002; 2002US-0406784P.
XX
PR 05-SEP-2002; 2002US-0408378P.
XX
PR 09-SEP-2002; 2002US-0409293P.
XX
PR 15-JAN-2003; 2003US-0440129P.
XX
PR 20-FEB-2003; 2003WO-US005028.
XX
PR 20-FEB-2003; 2003WO-US005346.
XX
PR 30-APR-2003; 2003US-00427160.
XX
PR 23-MAY-2003; 2003US-00444853.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
XX
PA (RICH/) RICHARDS I.
XX
PA (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 94; 84pp; English.

RESULT 213
 ADM27747
 ID ADW27747 standard; RNA; 19 BP.
 XX
 AC ADW27747;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #44.
 XX
 KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM inconitence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 44; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SO Sequence 19 BP; 8 A; 4 C; 4 G; 0 T; 3 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 777 AAAGCGUACCAAGACCU 795
 DB 1 AAAGCGUACCAAGACCU 19
 RESULT 214
 ADM27781
 ID ADW27781 standard; RNA; 19 BP.
 XX
 AC ADW27781;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #78.
 XX
 KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM inconitence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 78; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This


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XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0356580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 3; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 5 A; 9 C; 1 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 39 UCCAAACAUCAAGCUCUCC 57
DB 1 UCCAAACAUCAAGCUCUCC 19

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RESULT 210
ID ADW27729 standard; RNA; 19 BP.
AC ADW27729;
XX
XX
DT 07-APR-2005 (first entry)

Cholinergic receptor muscarinic 3 gene targeted siRNA #26.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.

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XX OS Synthetic.
XX PN US2005014172-A1.
XX PD 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX 20-FEB-2002; 2002US-0356580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 26; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 4 A; 5 C; 4 G; 0 T; 6 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 453 CAGCAUAGCCUCUGUUAUG 471
DB 1 CAGCAUAGCCUCUGUUAUG 19

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RESULT 211
ID ADW27731 standard; RNA; 19 BP.
AC ADW27731;
XX
XX
DT 07-APR-2005 (first entry)

Cholinergic receptor muscarinic 3 gene targeted siRNA #28.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

PR 20-FEB-2003; 2003MO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 182; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 6 A; 5 C; 6 G; 0 T; 2 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 1479 CAGUGCGAUCUUGCUGCC 1497
Db 19 CAGTGGCATCTTGCTTGCC 1
|||:||||:||||:||||
|||:||||:||||:||||
RESULT 208
ADM27900/C
ID ADM27900 standard; RNA; 19 BP.
XX
AC ADM27900;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #197.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003MO-US005028.
PR 20-FEB-2003; 2003MO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 197; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 0 A; 7 C; 9 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1749 GCGCGACCCGAGCAGGCC 1767
Db 19 GCGCGACCCGAGCAGGCC 1
|||:||||:||||:||||
|||:||||:||||:||||
RESULT 209
ADM27706
ID ADM27706 standard; RNA; 19 BP.
XX
AC ADM27706;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #3.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.

DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
 PT
 PS Disclosure; SEQ ID NO 175; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule CC was produced by solid phase oligonucleotide synthesis method. This CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX Sequence 19 BP; 5 A; 3 C; 9 G; 0 T; 2 U; 0 Other:
 SQ
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02; Mismatches 0; Gaps 0;
 Matches 14; Conservative 5; Indels 0; Gaps 0;
 QY 1353 GGCACUCUACCCUGUCC 1371
 DB 19 GGCACCTCCTACCTGTCTC 1
 RESULT 206
 ID ADM27882/c
 XX ADM27882 standard; RNA; 19 BP.
 AC
 XX ADM27882;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #179.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.
 KW
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.

XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswiggen J;
 PT
 XX WPI; 2005-090672/10.
 XX
 DR
 PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
 PT
 PS Disclosure; SEQ ID NO 179; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule CC was produced by solid phase oligonucleotide synthesis method. This CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX Sequence 19 BP; 2 A; 6 C; 3 G; 0 T; 8 U; 0 Other:
 SQ
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 89.5%; Pred. No. 1.6e+02; Mismatches 17; Conservative 2; Indels 0; Gaps 0;
 Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 1425 CACTAAGCGAAGGATG 1443
 DB 19 CACTAAGCGAAGGATG 1
 RESULT 207
 ID ADM27885/c
 XX ADM27885 standard; RNA; 19 BP.
 AC
 XX ADM27885;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #182.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.
 KW
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.

CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP, 4 A, 3 C, 7 G, 0 T, 5 U, 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1083 GAGAGCCATCCTACTCCATC 1
DB 19 GAGAGCCATCCTACTCCATC 1
RESULT 204
ADW27875/c
XX ADW27875 standard; RNA; 19 BP.
AC
XX ADW27875;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #172.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX
XX 20-MAY-2002; 2002WO-US015876.
XX
XX 06-JUN-2002; 2002US-0386782P.
XX
XX 29-AUG-2002; 2002US-0406784P.
XX
XX 05-SEP-2002; 2002US-0408378P.
XX
XX 09-SEP-2002; 2002US-0409293P.
XX
XX 15-JAN-2003; 2003US-0440129P.
XX
XX 20-FEB-2003; 2003WO-US005028.
XX
XX 20-FEB-2003; 2003WO-US005346.
XX
XX 30-APR-2003; 2003US-00427160.
XX
XX 23-MAY-2003; 2003US-00444853.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX
XX (RICH/) RICHARDS I.
XX
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI: 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.

PS Disclosure; SEQ ID NO 172; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP, 2 A, 6 C, 5 G, 0 T, 6 U, 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1299 AGCCGTGACACAGCTAAG 1317
DB 19 AGCCGTGACACAGCTAAG 1
RESULT 205
ADW27878/c
XX ADW27878 standard; RNA; 19 BP.
XX
XX ADW27878;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #175.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX
XX 20-MAY-2002; 2002WO-US015876.
XX
XX 06-JUN-2002; 2002US-0386782P.
XX
XX 29-AUG-2002; 2002US-0406784P.
XX
XX 05-SEP-2002; 2002US-0408378P.
XX
XX 09-SEP-2002; 2002US-0409293P.
XX
XX 15-JAN-2003; 2003US-0440129P.
XX
XX 20-FEB-2003; 2003WO-US005028.
XX
XX 20-FEB-2003; 2003WO-US005346.
XX
XX 30-APR-2003; 2003US-00427160.
XX
XX 23-MAY-2003; 2003US-00444853.
XX
XX 23-OCT-2003; 2003US-00693059.
XX
XX 24-NOV-2003; 2003US-00720448.
XX
XX 14-JAN-2004; 2004US-00757803.
XX
XX
XX (RICH/) RICHARDS I.
XX
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX

Best Local Similarity 73.7%; Pred. No. 1.6e+02; Indels 0; Gaps 0;
Matches 14; Conservative 5; Mismatches 0;

QY 435 UGCCAUGACUACGUAGCC 453
:||||:||||:||||:
Db 19 TGCCTTGACTGCTAGCC 1

RESULT 202

ADM27861/c
ID ADM27861 standard; RNA; 19 BP.

XX ADM27861;

DT 07-APR-2005 (first entry)

XX Cholinergic receptor muscarinic 3 gene targeted siRNA #158.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003US-05005346.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGEN J.

XX Richards I, Mcswigen J;

PI WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PT RNA through RNA interference, useful for treating asthma.

CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX Sequence 19 BP; 2 A; 6 C; 8 G; 0 T; 3 U; 0 Other;

QY Query Match 1.1%; Score 19; DB 1; Length 19;

XX Best Local Similarity 89.5%; Pred. No. 1.6e+02; Indels 0; Gaps 0;

XX Matches 17; Conservative 2; Mismatches 0;

QY 1047 CGCCUCCUCCGACGAGAG 1065
:||||:||||:||||:
Db 19 CGCCTCCTCCGACGAGAG 1

RESULT 203

ADM27863/c
ID ADM27863 standard; RNA; 19 BP.

XX ADM27863;

DT 07-APR-2005 (first entry)

XX Cholinergic receptor muscarinic 3 gene targeted siRNA #160.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003US-00427160.

PR 30-APR-2003; 2003US-00444853.

PR 23-MAY-2003; 2003US-00693059.

PR 23-OCT-2003; 2003US-00720448.

PR 24-NOV-2003; 2003US-00757803.

XX (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGEN J.

XX Richards I, Mcswigen J;

PI WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PT RNA through RNA interference, useful for treating asthma.

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule

AC ADW27824;
XX
XX 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #121.
XX
XX gene expression; antiasthmatic; anti-allergic; anti-inflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX inconitnence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00505346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 121; 84pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (II) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX
XX Sequence 19 BP; 5 A; 2 C; 5 G; 0 T; 7 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

RESULT: 201
ADW27827/c
ID ADW27827 standard; RNA; 19 BP.
XX
XX
XX ADW27827;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #124.
XX
XX gene expression; antiasthmatic; anti-allergic; anti-inflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX inconitnence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00505346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX
XX Disclosure; SEQ ID NO 124; 84pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (II) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX
XX Sequence 19 BP; 5 A; 4 C; 6 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;

KW incontinence; ss.
 XX Synthetic.
 OS
 XX US2005014172-A1.
 PN
 XX 20-JAN-2005.
 PD
 XX
 XX 11-MAR-2004; 2004US-00798090.
 PF
 XX 20-FEB-2002; 2002US-0358580P.
 XX 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 20-FEB-2003; 2003US-00427160.
 PR 30-APR-2003; 2003US-0044853.
 PR 23-MAY-2003; 2003US-00693059.
 PR 23-OCT-2003; 2003US-00720448.
 PR 24-NOV-2003; 2003US-00757803.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 113; 84bp; English.
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 5 A; 5 C; 6 G; 0 T; 3 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 237 CUGGUGACCAUCCGCGC 255
 DB 19 CTTGGTGACCATCATCGGC 1
 RESULT 199
 ADM27821/c
 ID ADM27821 standard; RNA; 19 BP.
 XX
 AC ADM27821;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #118.
 XX

KW Gene expression; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX Synthetic.
 OS
 XX US2005014172-A1.
 PN
 XX 20-JAN-2005.
 PD
 XX
 XX 11-MAR-2004; 2004US-00798090.
 PF
 XX 20-FEB-2002; 2002US-0358580P.
 XX 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 20-FEB-2003; 2003US-00427160.
 PR 30-APR-2003; 2003US-0044853.
 PR 23-MAY-2003; 2003US-00693059.
 PR 23-OCT-2003; 2003US-00720448.
 PR 24-NOV-2003; 2003US-00757803.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 118; 84bp; English.
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 19 BP; 5 A; 6 C; 7 G; 0 T; 1 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 73.7%; Pred. No. 1.6e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 QY 327 CUGGCTUGGCGGCAUUG 345
 DB 19 CTTGGCTGTGCGGATCTG 1
 RESULT 200
 ADM27824/c
 ID ADM27824 standard; RNA; 19 BP.
 XX

Pd		20-JAN-2005.	
PX			
PF	XX	11-MAR-2004; 2004US-00798090.	
XX			
PR	20-FEB-2002;	2002US-0358580P.	
PR	11-MAR-2002;	2002US-0363124P.	
PR	20-MAY-2002;	2002MO-US015876.	
PR	06-JUN-2002;	2002US-0386782P.	
PR	29-AUG-2002;	2002US-0406784P.	
PR	05-SEP-2002;	2002US-0408376P.	
PR	09-SEP-2002;	2002US-0409293P.	
PR	15-JAN-2003;	2003US-0440129P.	
PR	20-FEB-2003;	2003WO-US005028.	
PR	20-FEB-2003;	2003WO-US005346.	
PR	30-APR-2003;	2003US-0042716P.	
PR	23-MAY-2003;	2003US-00444853.	
PR	23-OCT-2003;	2003US-00693059.	
PR	24-NOV-2003;	2003US-00720448.	
PR	14-JAN-2004;	2004US-00757803.	
XX			
PA	(RICH/) RICHARDS I .		
PA	(MCSW/) MCSWIGEN J .		
PI			
PI	Richards I , Mcswigen J ;		
DR			
XX			
PT	WPI, 2005-090672/10.		
PT			
PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.		
PS	Disclosure; SEQ ID NO 91; 84pp; English.		
XX			
CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,		
CC	where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoostruction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.		
CC			
SQ	Sequence 19 BP; 1 A; 5 C; 6 G; 0 T; 7 U; 0 Other;		
Dt			
Query Match	1.1%; Score 19; DB 1; Length 19;		
Best Local Similarity	100.0% Pred. No. 1.6e+02;		
Matches	19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Oy	1623 CGGUGCUCAGCUCUUCGUGC 1641 		
Db	1 CGGGCGCUAUGCUCUUCGUGC 19 		
RESULT 198			
ADWM27816/c			
ID	ADWM27816 standard; RNA; 19 BP.		
AC			
XX	ADM27816;		
DM			
DT	07-Apr-2005 (first entry)		
DE			
Cholinergic receptor muscarinic 3 gene targeted siRNA #113.			
gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotenusive; gastrointestinal-gen.; neuroprotective; nootropic; utropahnic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hyperextension; emphysema; irritable bowel syndrome; Alzheimers disease;			

PR 14-JAN-2004; 2004US-00757803.
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PI RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 33; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 1 A; 6 C; 3 G; 0 T; 9 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 579 GGUCAUCCUCCUUGUCCU 597
Db 1 GGUCAUCCUCCUUGUCCU 19
|||||
RESULT 195
ADM27739
ID ADM27739 standard; RNA; 19 BP.
XX
AC ADM27739;
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #36.
DE
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX 11-MAR-2002; 2002US-0363124P.
PR
XX 20-MAY-2002; 2002WO-US015876.
PR
XX 06-JUN-2002; 2002US-0386782P.
PR
XX 29-AUG-2002; 2002US-0406784P.
PR
XX 05-SEP-2002; 2002US-0408378P.
PR
XX 09-SEP-2002; 2002US-0409293P.
PR
XX 15-JAN-2003; 2003US-0440129P.
PR

PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PI RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 36; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 6 A; 3 C; 6 G; 0 T; 4 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 633 UGGAAGAGACUGUCCU 651
Db 1 UGGAAGAGACUGUCCU 19
|||||
RESULT 196
ADM27774
ID ADM27774 standard; RNA; 19 BP.
XX
AC ADM27774;
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #71.
DE
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
PN
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX 11-MAR-2002; 2002US-0363124P.
PR

XX
PS Disclosure; SEQ ID NO 21; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (II) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (II) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 6 A; 4 C; 3 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02; Mismatches 0; Gaps 0;
Matches 19; Conservative 0; Indels 0; Gaps 0;
QY 363 AAUGAUCUGUUUACGACC 381
Db 1 AAUGAUCUGUUUACGACC 19
|||||
RESULT 193
ADM27727 1.1%; Score 19; DB 1; Length 19;
ID ADM27727 standard; RNA; 19 BP.
XX
XX ADM27727;
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #24.
DE
XX
KM gene expression; antispasmodic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2002US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX
XX (RICH) RICHARDS I.
XX (MCSW) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;

XX
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 24; 84pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (II) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (II) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 1 A; 6 C; 6 G; 0 T; 6 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02; Mismatches 0; Gaps 0;
Matches 19; Conservative 0; Indels 0; Gaps 0;
QY 417 GGGCTUGAGCCUCUGGCUU 435
Db 1 GGGCTUGAGCCUCUGGCUU 19
|||||
RESULT 194
ADM27736 1.1%; Score 19; DB 1; Length 19;
ID ADM27736 standard; RNA; 19 BP.
XX
XX ADM27736;
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #33.
DE
XX
KM gene expression; antispasmodic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.

CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX SQ Sequence 19 BP; 4 A; 5 C; 5 G; 0 T; 5 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 129 UCGAGCAGCUGGCAUUC 147

Db 1 UCGAGCAGCUGGCAUUC 19

RESULT 191

ADM27712
ID ADM27712 standard; RNA; 19 BP.

XX ADM27712;

XX 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #9.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utroplastic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.

XX OS Synthetic.

XX US2005014172-A1.

XX PD 20-JAN-2005.

XX PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002WO-US015876.

XX 06-JUN-2002; 2002US-0386782P.

XX 29-AUG-2002; 2002US-0406784P.

XX 05-SEP-2002; 2002US-0408378P.

XX 09-SEP-2002; 2002US-0409293P.

XX 15-JAN-2003; 2003US-0440129P.

XX 20-FEB-2003; 2003WO-US005028.

XX 30-APR-2003; 2003US-00427160.

XX 23-MAY-2003; 2003US-0044853.

XX 23-OCT-2003; 2003US-00693059.

XX 24-NOV-2003; 2003US-00720448.

XX 14-JAN-2004; 2004US-00757803.

PA (RICH/) RICHARDS I.

XX (MCSW/) MCSWIGGEN J.

PI Richards I, Mcswiggen J;

XX WPI; 2005-090672/10.

CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX SQ Sequence 19 BP; 3 A; 9 C; 3 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 147 CUCCUCUCCAGACGUACC 165

Db 1 CUCCUCUCCAGACGUACC 19

RESULT 192

ADM27724
ID ADM27724 standard; RNA; 19 BP.

XX ADM27724;

XX 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #21.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utroplastic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.

XX OS Synthetic.

XX US2005014172-A1.

XX PD 20-JAN-2005.

XX PF 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002WO-US015876.

XX 06-JUN-2002; 2002US-0386782P.

XX 29-AUG-2002; 2002US-0406784P.

XX 05-SEP-2002; 2002US-0408378P.

XX 09-SEP-2002; 2002US-0409293P.

XX 15-JAN-2003; 2003US-0440129P.

XX 20-FEB-2003; 2003WO-US005028.

XX 30-APR-2003; 2003US-00427160.

XX 23-MAY-2003; 2003US-0044853.

XX 23-OCT-2003; 2003US-00693059.

XX 24-NOV-2003; 2003US-00720448.

XX 14-JAN-2004; 2004US-00757803.

PA (RICH/) RICHARDS I.

XX (MCSW/) MCSWIGGEN J.

PI Richards I, Mcswiggen J;

XX WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
RNA through RNA interference, useful for treating asthma.

Db 19 CAACTACTTCCTTAAGC 1

RESULT 189

ADW27855/c

ID ADW27855 standard; RNA; 19 BP.

XX

AC ADW27855;

XX

DT 07-APR-2005 (first entry)

XX

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #152.

XX

KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.;

KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;

KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

KW incontinence; ss.

XX

OS Synthetic.

XX

PN US2005014172-A1.

XX

PD 20-JAN-2005.

XX

PF 11-MAR-2004; 2004US-00798090.

XX

PR 20-FEB-2002; 2002US-0358580P.

XX

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003WO-US005346.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX

PA (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGGEN J.

XX

PI Richards I, Mcswiggen J;

XX

WPI; 2005-090672/10.

XX

DR Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PI RNA through RNA interference, useful for treating asthma.

XX

PS Disclosure; SEQ ID NO 152; 84bp; English.

XX

CC The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the

CC presence of nucleotides having a 2-hydroxy group for mediating RNA

CC interference. (I) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

CC Alzheimer's disease or urinary incontinence. (I) has increased resistance

CC towards nuclease. Double stranded short interfering nucleic acid molecule

CC was produced by solid phase oligonucleotide synthesis method. This

CC sequence represents an example of a siRNA molecule of the invention.

XX

XX Sequence 19 BP; 3 A; 4 C; 6 G; 0 T; 6 U; 0 Other;

XX

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 84.2%; Pred. No. 1.6e+02;

Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 939 CUGGUDCAACCAAGAGC 957

|||:|||||

Db 19 CTGGTTCAACCAAGAGC 1

XX

RESULT 190

ADW27711

ID ADW27711 standard; RNA; 19 BP.

XX

AC ADW27711;

XX

DT 07-APR-2005 (first entry)

XX

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #8.

XX

KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.;

KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;

KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;

KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;

KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;

KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;

KW incontinence; ss.

XX

OS Synthetic.

XX

PN US2005014172-A1.

XX

PD 20-JAN-2005.

XX

PF 11-MAR-2004; 2004US-00798090.

XX

PR 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003WO-US005346.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX

PA (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGGEN J.

XX

PI Richards I, Mcswiggen J;

XX

WPI; 2005-090672/10.

XX

DR Novel chemically synthesized double stranded short interfering nucleic

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PI RNA through RNA interference, useful for treating asthma.

XX

PS Disclosure; SEQ ID NO 8; 84bp; English.

XX

CC The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the

CC presence of nucleotides having a 2-hydroxy group for mediating RNA

CC interference. (I) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

CC Alzheimer's disease or urinary incontinence. (I) has increased resistance

CC

XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
XX 20-JAN-2005.
XX 11-MAR-2004; 2004US-00798090.
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2003US-0409293P.
XX 15-JAN-2003; 2003US-040129P.
XX 20-FEB-2003; 2003WO-US005346.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00757803.
XX 14-JAN-2004; 2004US-00757803.
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX Richard I, Mcswigen J;
XX MPI; 2005-090672/10.
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 115; 84pp; English.
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 5 A; 4 C; 3 G; 0 T; 7 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 273 GUCAUUAGGUCACACAG 291
|:|||||:|||||
Db 19 GTCATTTAAGTCAACAG 1
|:|||||:|||||
RESULT 188
ADM27820/c
ID ADM27820 standard; RNA; 19 BP.

XX
AC ADM27820;
XX 07-APR-2005 (first entry)
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #117.
XX
KW gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropanic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
XX 20-JAN-2005.
XX 11-MAR-2004; 2004US-00798090.
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-040129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00693059.
XX 23-OCT-2003; 2003US-00720448.
XX 24-NOV-2003; 2003US-00757803.
XX 14-JAN-2004; 2004US-00757803.
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX Richard I, Mcswigen J;
XX MPI; 2005-090672/10.
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 117; 84pp; English.
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 6 A; 1 C; 7 G; 0 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 309 CACGACUCUCUCUUAAC 327
|:|||||:|||||

XX 20-JAN-2005.
PD
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002MO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003MO-US005028.
PR 20-FEB-2003; 2003MO-US005346.
PR 30-APR-2003; 2003MO-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 59; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasocostriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 3 A; 8 C; 6 G; 0 T; 2 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1047 CGCCUCCUCCGACGAGAG 1065
DB 1 CGCCUCCUCCGACGAGAG 19
|||||
RESULT 186
ADM27772
ID ADM27772 standard; RNA; 19 BP.
XX
AC ADM27772;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #69.
KM gene expression; antiasthmatic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; neotropic; neuropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasocostriction;

KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
XX US2005014172-A1.
XX
PN 20-JAN-2005.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002MO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003MO-US005028.
PR 20-FEB-2003; 2003MO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 69; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasocostriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 19 BP; 5 A; 5 C; 8 G; 0 T; 1 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred.No.1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1227 GGGCCAGAGAGCGUGAC 1245
DB 1 GGGCCAGAGAGCGUGAC 19
|||||
RESULT 187
ADM27818/c
ID ADM27818 standard; RNA; 19 BP.
XX
AC ADM27818;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #115.

PI	Richards I, McSwiggen J;
XX	WPI, 2005-090672/10.
XX	
PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
XX	
PS	Disclosure: SEQ ID NO 192; 84bp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
CC	
XX	Sequence 19 BP; 6 A; 4 C; 5 G; 0 T; 4 U; 0 Other;
SQ	
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	68.4%; Pred. No. 1.6e+02;
Matches	13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
OY	1659 CACTUUCAGAGUCGUCG 1677 :: :: :: :: 19 CACTTCAAGATGCTGCTG 1
DB	
RESULT 182	
ADW27704	
ID	ADW27704 standard; RNA; 19 BP.
XX	
AC	ADW27704;
XX	
DT	07-APR-2005 (first entry)
XX	
DB	Cholinergic receptor muscarinic 3 gene targeted siRNA #1.
XX	
KW	gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypocoensive; gastrointestinal-gen.; neuroprotective; nootropic; utopachic; short interfering RNA; RNA interference; siRNA;
KW	cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW	hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.
XX	
XX	Synthetic.
OS	
PN	US2005014172-A1.
PD	
XX	
XX	20-JAN-2005.
XX	
PF	11-MAR-2004; 2004US-00798090.
XX	
XX	20-FEB-2002; 2002US-0358580P.
PR	11-MAR-2002; 2002US-0363124P.
PR	20-MAY-2002; 2002WO-US015676.
PR	06-JUN-2002; 2002US-0386782P.
PR	29-AUG-2002; 2002US-0406784P.
PR	05-SEP-2002; 2002US-0409293P.
PR	09-SEP-2002; 2002US-0409293P.
PR	15-JAN-2003; 2003US-0440129P.
PR	20-FEB-2003; 2003WO-US005028.
PR	20-FEB-2003; 2003WO-US005346.
PR	30-APR-2003; 2003US-00227160.
PR	23-MAY-2003; 2003US-0044853.
PR	23-OCT-2003; 2003US-00693059.

PR	24-NOV-2003;	2003US-00720448.
PR	14-JAN-2004;	2004US-00757803.
XX	(RICH/) RICHARDS I.	
PA	(MCSW/) MCSWIGEN J.	
XX		
PI	Richards I, Mcswigen J;	
XX		
DR	WPI; 2005-090672/10.	
XX		
PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.	
PT		
PS	Disclosure; SEQ ID NO 1; 84pp; English.	
CC		
XX	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,	
CC	where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides at (I) having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoostruction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.	
CC		
XX		
SQ	Sequence 19 BP; 7 A; 5 C; 3 G; 0 T; 4 U; 0 Other;	
Query Match	1.1%; Score 19; DB 1; Length 19;	
Best Local Similarity	100.0%; Pred. No. 1.6e+02;	
Matches	19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
OY	3 GACCTUGCACAUAACAGU 21 	
DB	1 GACCTUGCACAUAACAGU 19	
RESULT 183		
ID	ADM27716 standard; RNA; 19 BP.	
XX		
AC	ADM27716;	
XX		
DT	07-APR-2005 (first entry)	
XX		
DE	Cholinergic receptor muscarinic 3 gene targeted siRNA #13.	
XX		
RW	gene expression; antiaesthetic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypocoeliac; gastrointestinal-gen.; neuroprotective; nootropic; uropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hyperextension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.	
RW		
KW		
XX	Synthetic.	
OS		
PX	US2005014172-A1.	
PN		
FD	20-JAN-2005.	
XX		
PF	11-MAR-2004; 2004US-00798090.	
XX		
PR	20-FEB-2002; 2002US-0358580P.	
PR	11-MAR-2002; 2002US-0363124P.	
PR	20-MAY-2002; 2002WO-US015876.	
PR	06-JUN-2002; 2002US-0386782P.	
PR	29-AUG-2002; 2002US-0406784P.	
PR	05-SEP-2002; 2002US-0408378P.	
PR	09-SEP-2002; 2002US-0409293P.	

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 6 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1245 CGAUGGAGGAGUUNUCCA 1263
DB 19 CGATGAGGAGCTTTTCCA 1
|||:|||||:|||||
ID ADM27883 standard; RNA; 19 BP.
AC ADM27883;
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #180.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neotropic; utropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX OS
XX US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX PI Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3

PT RNA through RNA interference, useful for treating asthma.
XX
XX disclosure; SEQ ID NO 180; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 3 A; 7 C; 4 G; 0 T; 5 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.6e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1443 GUCCUGUGUACAAGAGAAG 1461
DB 19 GTCCCTGCTCAAGAGAAG 1
||:||||:|||||
ID ADM27895 standard; RNA; 19 BP.
AC ADM27895;
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #192.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neotropic; utropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX OS
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 93 GGGAAACCGCACUACUUC 111
|||||:||||:||||:
Db 19 GGGAAACCGTCACCTCATTTTC 1

RESULT 178
ADM27811/c
ID ADM27811 standard; RNA; 19 BP.
XX
AC ADM27811;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #108.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003WO-US005346.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 108; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,

CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 4 A; 3 C; 9 G; 0 T; 3 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 147 CUCCUCUCGACGUAAC 165
|||:|||||:||||:
Db 19 CTCCTCTCGACGCTACC 1

RESULT 179
ADM27872/c
ID ADM27872 standard; RNA; 19 BP.
XX
AC ADM27872;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #169.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003WO-US005346.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswigen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 169; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

ID ADW27805 standard; RNA; 19 BP.
 XX
 AC ADW27805;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #102.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX Synthetic.
 XX OS
 XX US2005014172-A1.
 XX PN
 XX PD 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 XX PF
 XX 20-FEB-2002; 2002US-0358580P.
 XX PR 11-MAR-2002; 2002US-0363124P.
 XX PR 20-MAY-2002; 2002WO-US015876.
 XX PR 06-JUN-2002; 2002US-0386782P.
 XX PR 29-AUG-2002; 2002US-0406784P.
 XX PR 05-SEP-2002; 2002US-0408378P.
 XX PR 09-SEP-2002; 2002US-0409293P.
 XX PR 15-JAN-2003; 2003US-0440129P.
 XX PR 20-FEB-2003; 2003WO-US005028.
 XX PR 20-FEB-2003; 2003WO-US005346.
 XX PR 30-APR-2003; 2003US-00427160.
 XX PR 23-MAY-2003; 2003US-0044853.
 XX PR 23-OCT-2003; 2003US-00693059.
 XX PR 24-NOV-2003; 2003US-00720448.
 XX PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX PA (MCSW/) MCSWIGGEN J.
 XX PI
 XX PI Richards I, Mcswiggen J;
 XX DR WPI; 2005-090672/10.
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX Disclosure; SEQ ID NO 102; 84pp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 XX Sequence 19 BP; 4 A; 1 C; 9 G; 0 T; 5 U; 0 Other;
 SO
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 1.6e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

DB
 19 TCCAAACATCAGCTCTCC 1
 :|||||:|||||:
 RESULT 177
 ADW27808/c
 ID ADW27808 standard; RNA; 19 BP.
 XX
 AC ADW27808;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #105.
 XX
 KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX Synthetic.
 XX OS
 XX US2005014172-A1.
 XX PN
 XX PD 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 XX PF
 XX 20-FEB-2002; 2002US-0358580P.
 XX PR 11-MAR-2002; 2002US-0363124P.
 XX PR 20-MAY-2002; 2002WO-US015876.
 XX PR 06-JUN-2002; 2002US-0386782P.
 XX PR 29-AUG-2002; 2002US-0406784P.
 XX PR 05-SEP-2002; 2002US-0408378P.
 XX PR 09-SEP-2002; 2002US-0409293P.
 XX PR 15-JAN-2003; 2003US-0440129P.
 XX PR 20-FEB-2003; 2003WO-US005028.
 XX PR 20-FEB-2003; 2003WO-US005346.
 XX PR 30-APR-2003; 2003US-00427160.
 XX PR 23-MAY-2003; 2003US-0044853.
 XX PR 23-OCT-2003; 2003US-00693059.
 XX PR 24-NOV-2003; 2003US-00720448.
 XX PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX PA (MCSW/) MCSWIGGEN J.
 XX PI
 XX PI Richards I, Mcswiggen J;
 XX DR WPI; 2005-090672/10.
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX Disclosure; SEQ ID NO 105; 84pp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 XX Sequence 19 BP; 5 A; 4 C; 6 G; 0 T; 4 U; 0 Other;
 SO

DE Cholineergic receptor muscarinic 3 gene targeted siRNA #73.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX Synthetic.
XX
XX US2005014172-A1.
PN
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
PI WPI, 2005-090672/10.
XX
XX
PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholineergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PS Disclosure; SEQ ID NO 73; 84pp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

XX
XX Sequence 19 BP; 6 A; 5 C; 6 G; 0 T; 2 U; 0 Other;

QY Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.Ee+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Gy 1299 AGCGUGACACAGCUAAG 1317
Db | |||||
1 AGCGUGACACAGCUAAG 19

RESULT 176
ADW27805/C

PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.
XX PI Richard I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 165; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 2 A; 11 C; 3 G; 0 T; 3 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 1173 GCCUGAGGAGGAGCGGG 1191
Db 19 GCGTGAAGAGAGGAGCTGGGG 1
|||||
RESULT 171
ADM27880/C
ID ADM27880 standard; RNA; 19 BP.
XX
XX ADM27880;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #177.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX Synthetic.
OS
XX
XX US2005014172-A1.
PN
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2003US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
XX

PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 177; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 19 BP; 5 A; 7 C; 4 G; 0 T; 3 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.6e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
OY 1389 GCGCAGAGGAGGAGGAGG 1407
Db 19 GCGCAGAGGAGGAGGAGG 1
|||||
RESULT 172
ADM27884/C
ID ADM27884 standard; RNA; 19 BP.
XX
XX ADM27884;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #181.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX Synthetic.
OS
XX
XX US2005014172-A1.
PN
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 135; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 SQ Sequence 19 BP; 4 A; 6 C; 3 G; 0 T; 6 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 1.6e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 633 UGGAAGAGAACUGGCGCU 651
 Db 19 TGGAAAGAGAACTGTGCTT 1
 RESULT 169
 ADM27856/c
 ID ADM27856 standard; RNA; 19 BP.
 XX
 AC ADM27856;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #153.
 XX
 XX gene expression; antialasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-0044853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (Rich/) RICHARDS I.
 PA (MCSW/) MCSWIGEN J.

XX
 PI Richards I, Mcswigen J;
 XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 153; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 SQ Sequence 19 BP; 2 A; 5 C; 7 G; 0 T; 5 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 89.5%; Pred. No. 1.6e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 957 CUGAAACCCAGCUCGAG 975
 Db 19 CTGGAACCCAGCTCCGAG 1
 RESULT 170
 ADM27868/c
 ID ADM27868 standard; RNA; 19 BP.
 XX
 AC ADM27868;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #165.
 XX
 XX gene expression; antialasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-0044853.

CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 6 A; 4 C; 5 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.6e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 111 CCGCAGCUNACAUGUUCU 129
Db 19 CCGCAGCTACATCTTCT 1
RESULT 167
ADW27815/c
ID ADW27815 standard; RNA; 19 BP.
XX
AC ADW27815;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #112.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
PD 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
PF 20-FEB-2002; 2002US-0358580P.
XX
PR 11-MAR-2002; 2002US-0363124P.
XX
PR 20-MAY-2002; 2002WO-US015876.
XX
PR 06-JUN-2002; 2002US-0386782P.
XX
PR 29-AUG-2002; 2002US-0406784P.
XX
PR 05-SEP-2002; 2002US-0408378P.
XX
PR 09-SEP-2002; 2002US-0409293P.
XX
PR 15-JAN-2003; 2003US-0440129P.
XX
PR 20-FEB-2003; 2003WO-US005028.
XX
PR 20-FEB-2003; 2003WO-US005346.
XX
PR 30-APR-2003; 2003US-00427160.
XX
PR 23-MAY-2003; 2003US-00444853.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 112; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 4 A; 5 C; 7 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.6e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Qy 219 CUUACGGCAUCCUGCC 237
Db 19 CTTACGGGCACTCTGACC 1
RESULT 168
ADW27838/c
ID ADW27838 standard; RNA; 19 BP.
XX
AC ADW27838;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #135.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX US2005014172-A1.
XX
PD 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
PF 20-FEB-2002; 2002US-0358580P.
XX
PR 11-MAR-2002; 2002US-0363124P.
XX
PR 20-MAY-2002; 2002WO-US015876.
XX
PR 06-JUN-2002; 2002US-0386782P.
XX
PR 29-AUG-2002; 2002US-0406784P.
XX
PR 05-SEP-2002; 2002US-0408378P.
XX
PR 09-SEP-2002; 2002US-0409293P.
XX
PR 15-JAN-2003; 2003US-0440129P.
XX
PR 20-FEB-2003; 2003WO-US005028.
XX
PR 20-FEB-2003; 2003WO-US005346.
XX
PR 30-APR-2003; 2003US-00427160.
XX
PR 23-MAY-2003; 2003US-00444853.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
XX PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 112; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short

QY 1551 UGACAGCUGCAUACCCAAA 1569
 |||||
 Db 1 UGACAGCUGCAUACCCAAA 19

RESULT 165
 ADM27804/C
 ID ADM27804 standard; RNA; 19 BP.
 XX ADM27804;
 AC
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #101.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.
 XX Synthetic.
 XX OS
 XX PN US2005014172-A1.
 XX PD 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 XX PF
 XX 20-FEB-2002; 2002US-0358580P.
 XX PR 11-MAR-2002; 2002US-0363124P.
 XX PR 20-MAY-2002; 2002WO-US015876.
 XX PR 06-JUN-2002; 2002US-0386782P.
 XX PR 29-AUG-2002; 2002US-0406784P.
 XX PR 05-SEP-2002; 2002US-0408378P.
 XX PR 09-SEP-2002; 2002US-0409293P.
 XX PR 15-JAN-2003; 2003US-0440129P.
 XX PR 20-FEB-2003; 2003WO-US005028.
 XX PR 30-APR-2003; 2003WO-US005346.
 XX PR 20-APR-2003; 2003US-00427160.
 XX PR 23-MAY-2003; 2003US-0044853.
 XX PR 23-OCT-2003; 2003US-00693059.
 XX PR 24-NOV-2003; 2003US-00720448.
 XX PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswigen J;
 XX
 XX WPI; 2005-090672/10.
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX disclosure; SEQ ID NO 101; 84pp; English.
 PS
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX

SQ Sequence 19 BP; 8 A; 2 C; 6 G; 0 T; 3 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 57.9%; Pred. No. 1.6e+02;
 Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACCCUGCCUUGUUU 39
 |||||
 Db 19 TACAACCTCGCCTTGT 1

RESULT 166
 ADM27809/C
 ID ADM27809 standard; RNA; 19 BP.
 XX ADM27809;
 AC
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #106.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.
 XX Synthetic.
 XX OS
 XX PN US2005014172-A1.
 XX PD 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 XX PF
 XX 20-FEB-2002; 2002US-0358580P.
 XX PR 11-MAR-2002; 2002US-0363124P.
 XX PR 20-MAY-2002; 2002WO-US015876.
 XX PR 06-JUN-2002; 2002US-0386782P.
 XX PR 29-AUG-2002; 2002US-0406784P.
 XX PR 05-SEP-2002; 2002US-0408378P.
 XX PR 09-SEP-2002; 2002US-0409293P.
 XX PR 15-JAN-2003; 2003US-0440129P.
 XX PR 20-FEB-2003; 2003WO-US005028.
 XX PR 30-APR-2003; 2003WO-US005346.
 XX PR 20-APR-2003; 2003US-00427160.
 XX PR 23-MAY-2003; 2003US-0044853.
 XX PR 23-OCT-2003; 2003US-00693059.
 XX PR 24-NOV-2003; 2003US-00720448.
 XX PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswigen J;
 XX
 XX WPI; 2005-090672/10.
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX disclosure; SEQ ID NO 106; 84pp; English.
 PS
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC

PA (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswigen J;
 XX
 XX WPI; 2005-090672/10.
 DR
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 2; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 19 BP; 3 A; 6 C; 2 G; 0 T; 8 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 21 UACAACTCCGCGCCUUGUU 39
 DB 1 UACAACTCCGCGCCUUGUU 19
 RESULT 158
 ADM27708
 ID ADM27708 standard; RNA; 19 BP.
 XX
 AC ADM27708;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #5.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 XX incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 PD
 XX 20-JAN-2005.
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00630305.
 PR 24-NOV-2003; 2003US-00720446.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswigen J;
 XX
 XX WPI; 2005-090672/10.
 DR
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 5; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 19 BP; 2 A; 8 C; 7 G; 0 T; 2 U; 0 Other;
 Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 75 CGAUGCAGGCGCGCCCCG 93
 DB 1 CGAUGCAGGCGCGCCCCG 19
 RESULT 159
 ADM27738
 ID ADM27738 standard; RNA; 19 BP.
 XX
 AC ADM27738;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #35.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 XX incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 PD
 XX 20-JAN-2005.
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

SO Sequence 19 BP; 7 A; 3 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 723 UAUCCUGUACCAUUAUG 741

Db 19 TAGCCTGTGACCAATTATG 1

RESULT 156
ADW27893/C
ID ADW27893 standard; RNA; 19 BP.

AC ADW27893;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #190.

KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.

OS Synthetic.

PN US2005014172-A1.

PD 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

PR 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

PA (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGEN J.

PI Richards I, Mcswigen J;

DR WPI, 2005-090672/10.

PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.

PS Disclosure; SEQ ID NO 190; 84pp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.

SO Sequence 19 BP; 7 A; 6 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1623 CGUGUGUAGUCUGUGC 1641

Db 19 CGTGTCTATGCTGTGTGC 1

RESULT 157
ADW27705
ID ADW27705 standard; RNA; 19 BP.

AC ADW27705;

DT 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #2.

KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.

OS Synthetic.

PN US2005014172-A1.

PD 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

PR 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-00444853.

PA (RICH/) RICHARDS I.

XX Sequence 19 BP; 9 A; 4 C; 3 G; 0 T; 3 U; 0 Other;
SQ Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 1.6e+02;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;
QY 615 GUUCUGCAUACUUNU 633
|:::|||||:::|
DB 19 GTTCTGCGCACTTGT 1

RESULT 154
ADM27842/C
ID ADM27842 standard; RNA; 19 BP.
XX ADM27842;
AC
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #139.
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.
XX
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
FI
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 139; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 8 A; 3 C; 5 G; 0 T; 3 U; 0 Other;
QY Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.6e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
QY 705 AGCCAUUGCGCUUNU 723
|:::|||||:::|
DB 19 AGCCATCGCTGCTTTTAT 1

RESULT 155
ADM27843/C
ID ADM27843 standard; RNA; 19 BP.
XX ADM27843;
AC
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #140.
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KW incontinence; ss.
XX
XX
OS Synthetic.
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX
PI Richards I, Mcswigen J;
FI
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 140; 84pp; English.
XX

RESULT	152
ID	ADW27832/C
XX	ADW27832 standard; RNA; 19 BP.
AC	ADM27832;
XX	07-APR-2005 (first entry)
XX	Cholinergic receptor muscarinic 3 gene targeted siRNA #129.
DE	
KW	gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; KW
KW	nootropic; uteraphic; short interfering RNA; RNA interference; siRNA; KW
KW	cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; KW
KW	inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; KW
KW	hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; KW
KW	incontinence; ss.
OS	Synthetic.
XX	
PN	US2005014172-A1.
PD	20-JAN-2005.
XX	
PF	11-MAR-2004; 2004US-00798090.
XX	
PR	20-FEB-2002; 2002US-0358580P.
PR	11-MAR-2002; 2002US-0361124P.
PR	20-MAY-2002; 2002WO-US015876.
PR	06-JUN-2002; 2002US-0386782P.
PR	29-AUG-2002; 2002US-0406784P.
PR	05-SEP-2002; 2002US-0408378P.
PR	09-SEP-2002; 2002US-0409293P.
PR	15-JAN-2003; 2003US-0440129P.
PR	20-FEB-2003; 2003WO-US005028.
PR	20-FEB-2003; 2003WO-US005346.
PR	30-APR-2003; 2003US-00427160.
PR	23-MAY-2003; 2003US-0044853.
PR	23-OCT-2003; 2003US-0069305P.
PR	24-NOV-2003; 2003US-00720448.
PR	14-JAN-2004; 2004US-00757803.
XX	
PA	(RICH//) RICHARDS I.
XX	(MCSW//) MCSWIGEN J.
PI	Richards I, Mcswigen J;
DR	WPI; 2005-090672/10.
XX	
PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
FT	
XX	
PS	Disclosure; SEQ ID NO 129; 84pp; English.
CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNM) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (II) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance toward nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
SQ	Sequence 19 BP; 1 A; 4 C; 6 G; 0 T; 8 U; 0 Other;
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;	

QY 525 GUACCGAGCCCAACGACA 543
|:|||||||
Db 19 GTACCGAGCCCAACGACA 1

RESULT 153
ID ADM27837/C standard; RNA; 19 BP.
XX
XX ADM27837;
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #134.
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KM inconitenance; ss.
XX
XX Synthetic.
XX OS
XX US2005014172-A1.
PN
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0355580P.
XX PR 11-MAY-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-0069305P.
PR 24-NOV-2003; 2003US-00720446.
PR 14-JAN-2004; 2004US-00757803.

(RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
PI Richards I, Mcswigen J;
DR WPI; 2005-090672/10.
XX
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PS
PS Disclosure; SEQ ID NO 134; 84bp; English.

The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.

[illegible]

PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PI RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 61; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 7 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1083 GAGAGCCAUCCUACCAUC 1101
DB 1 GAGAGCCAUCCUACCAUC 19
RESULT 147
ADM27768
ID ADM27768 standard; RNA; 19 BP.
XX
XX ADM27768;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #65.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
PN
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
DR Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PI RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 65; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nucleases. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 19 BP; 5 A; 5 C; 6 G; 0 T; 3 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1155 AUCGACACCCUGCAGUG 1173
DB 1 AUCGACACCCUGCAGUG 19
RESULT 148
ADM27775
ID ADM27775 standard; RNA; 19 BP.
XX
XX ADM27775;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #72.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX Synthetic.
XX
XX US2005014172-A1.
PN
XX
XX 20-JAN-2005.
PD
XX

[illegible]

CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 SQ Sequence 23 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 2 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 23;
 Best Local Similarity 90.5%; Pred. No. 2.1e+02;
 Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 17 ACAGUACACCCUGCCUUGU 37
 ||||||||||||||||
 DB 2 ACAGUACACCCUGCCUUT 22

RESULT 143

ADM27931
 ID ADM27931 standard; RNA; 23 BP.

AC ADM27931;

XX 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #228.

XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
 KW incontinence; ss.

XX Synthetic.

XX Key Location/Qualifiers
 FT misc_difference 22..23
 FT /*tag= a
 FT /note= "deoxythymidine nucleotide"

XX PN US2005014172-A1.

XX 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

PR 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 30-APR-2003; 2003WO-US005346.

PR 23-MAY-2003; 2003US-00427160.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX PI Richards I, Mcswiggen J;
 XX WPI; 2005-090672/10.
 DR Novel, chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX Disclosure; SEQ ID NO 228; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.

SQ Sequence 23 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 2 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 23;
 Best Local Similarity 90.5%; Pred. No. 2.1e+02;
 Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1712 ACAGUACACGAGAGACAGU 1732
 ||||||||||||||||
 DB 2 ACAGUACACGAGAGACATT 22

RESULT 144

ADM27718
 ID ADM27718 standard; RNA; 19 BP.

AC ADM27718;

XX 07-APR-2005 (first entry)

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #15.

XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
 KW incontinence; ss.

XX Synthetic.

XX PN US2005014172-A1.

XX 20-JAN-2005.

PF 11-MAR-2004; 2004US-00798090.

PR 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.

PR 06-JUN-2002; 2002US-0386782P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

PR 20-FEB-2003; 2003WO-US005028.

PR 30-APR-2003; 2003US-00427160.

PR 23-MAY-2003; 2003US-0044853.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 14-JAN-2004; 2004US-00757803.

XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 XX PI Richards I, Mcswiggen J;
 XX WPI; 2005-090672/10.
 DR Novel, chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX Disclosure; SEQ ID NO 228; 84pp; English.

DE Cholinergic receptor muscarinic 3 gene targeted siRNA #271.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX Synthetic.
OS
XX
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /tag= a
FT /note= "deoxythymidine nucleotide"
PN US2005014172-A1.
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX
PI Richards I, Mcswigen J;
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
PS Disclosure; SEQ ID NO 271; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX
SQ Sequence 23 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 2 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 23;
Best Local Similarity 90.5%; Pred. No. 2.1e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
OY 17 ACAGUACAACUCGCUUUTU 37
|||||

DB 2 ACAGUACAACUCGCUUUTU 22
RESULT 142
ADW27958
ID ADW27958 standard; RNA; 23 BP.
XX
XX
AC ADW27958;
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #255.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX
XX Synthetic.
OS
XX
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /tag= a
FT /note= "deoxythymidine nucleotide"
PN US2005014172-A1.
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX
PI Richards I, Mcswigen J;
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
PS Disclosure; SEQ ID NO 255; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule

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XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005346.
PR 20-FEB-2003; 2003US-0044853.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-0069305P.
PR 23-OCT-2003; 2003US-0072044P.
PR 24-NOV-2003; 2003US-0072044P.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 244; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 2 Other:
SQ
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 23;
XX Best Local Similarity 90.5%; Pred. No. 2.1e+02;
XX Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1712 AGCAGUACCGACGACGACAGU 1732
DB 2 AGCAGUACCGACGACGACATT 22
XX
XX RESULT 140
XX ADM27979 standard; RNA; 23 BP.
XX
XX ADM27979;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #276.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
OS

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XX Key Location/Qualifiers
XX msc_difference 22.23
XX /tag=a
XX /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005346.
XX 20-FEB-2003; 2003US-0042716P.
XX 30-APR-2003; 2003US-0044853.
XX 23-MAY-2003; 2003US-0069305P.
XX 23-OCT-2003; 2003US-0072044P.
XX 24-NOV-2003; 2003US-0072044P.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 276; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 2 Other;
SQ
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 23;
XX Best Local Similarity 90.5%; Pred. No. 2.1e+02;
XX Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1712 AGCAGUACCGACGACGACAGU 1732
DB 2 AGCAGUACCGACGACGACATT 22
XX
XX RESULT 141
XX ADM27974 standard; RNA; 23 BP.
XX
XX ADM27974;
XX
XX 07-APR-2005 (first entry)
XX
XX
XX
XX
XX

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DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 239; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (II) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (II) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 23 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 2 Other;
XX
Query Match 1.1%; Score 19.4; DB 1; Length 23;
Best Local Similarity 90.5%; Pred. No. 2.1e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 17 ACAGUACACUCCGCUUUGU 37
DB 2 ACAGUACACUCCGCUUUT 22
RESULT 138
ADM27963
XX ADM27963 standard; RNA; 23 BP.
XX
AC ADM27963;
XX
DT 07-APR-2005 (first entry)
XX
DB Cholinergic receptor muscarinic 3 gene targeted siRNA #260.
XX
KM gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
FT
XX
FN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002US-0361587P.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003US-0500502P.
XX 20-FEB-2003; 2003US-0500534P.
XX 20-FEB-2003; 2003US-0500534P.

PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSM/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 260; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (II) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (II) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 23 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 2 Other;
XX
Query Match 1.1%; Score 19.4; DB 1; Length 23;
Best Local Similarity 90.5%; Pred. No. 2.1e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGAGACAGU 1732
DB 2 AGCAGUACGACGAGACACTT 22
RESULT 139
ADM27947
XX ADM27947 standard; RNA; 23 BP.
XX
AC ADM27947;
XX
DT 07-APR-2005 (first entry)
XX
DB Cholinergic receptor muscarinic 3 gene targeted siRNA #244.
XX
KM gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
FT
XX
FN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX

Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
1712 AGCAGUACGACGACAGU 1732
|||||
1 AGCAGUACGACGACGACATT 21

Db

RESULT 136
ADM27926
ID ADM27926 strand; RNA; 23 BP.
AC ADM27926;
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #223.
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nocotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX misc_difference 22..23
XX /*tag= a
XX /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 223; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 2 Other;
XX
Query Match 1.1%; Score 19.4; DB 1; Length 23;
Best Local Similarity 90.5%; Pred. No. 2.1e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
17 ACAGUACAACUCCUCCUUGU 37
|||||
2 ACAGUACAACUCCUCCUUTT 22

Db

RESULT 137
ADM27942
ID ADM27942 strand; RNA; 23 BP.
AC ADM27942;
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #239.
XX
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nocotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX misc_difference 22..23
XX /*tag= a
XX /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX

CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 17 ACAGUACAACCCUGCCUUUGU 37
DB 1 ACAGUACAACCCUGCCUUUT 21
RESULT 134
AEA02332/c
ID AEA02332 standard; RNA; 21 BP.
XX
AC AEA02332;
XX
DT 28-JUL-2005 (first entry)
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 216.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 216; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX
SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
QY 19 AGUACAACCCUGCCUUUGUU 39
DB 21 AATACAACTCGCCTTGT 1
RESULT 135
AEA02392
ID AEA02392 standard; RNA; 21 BP.
XX
AC AEA02392;
XX
DT 28-JUL-2005 (first entry)
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 276.
XX
KM Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 276; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 0 Other;

CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

OY 19 AGUACACCCUCCGCTTGGT 39

DB 21 AATACACCTCGCTTGGTT 1

RESULT 132

AE02385/C
ID AE02385 standard; RNA; 21 BP.

XX AC AE02385;

XX DT 28-JUL-2005 (first entry)

XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 269.

XX KW Respiratory-Gen.; Antiaschematic; Antiasthmatic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;

XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

XX KW siRNA; RNA interference; gene silencing; short interfering RNA.

XX OS Synthetic.

XX PN WO2005045040-A2.

XX PD 19-MAY-2005.

XX PF 20-AUG-2004; 2004WO-US027367.

XX PR 23-OCT-2003; 2003US-00693059.

XX PR 24-NOV-2003; 2003US-00720448.

XX PR 03-DEC-2003; 2003US-00727780.

XX PR 14-JAN-2004; 2004US-00757803.

XX PR 10-FEB-2004; 2004US-0543480P.

XX PR 13-FEB-2004; 2004US-00780447.

XX PR 11-MAR-2004; 2004US-00798090.

XX PR 16-APR-2004; 2004US-00826966.

XX PR 30-APR-2004; 2004WO-US013456.

XX PR 24-MAY-2004; 2004WO-US016390.

XX PR 17-AUG-2004; 2004US-00919866.

XX PA (SIRN-) SIRNA THERAPEUTICS INC.

XX PI Richards I, Macswigen J;

XX DR WPI; 2005-356237/36.

XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.

CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1712 AGCAGUACCGACGACAGU 1732

DB 21 AACGATCCAGCAGACAGT 1

RESULT 133

AE02323
ID AE02323 standard; RNA; 21 BP.

XX AC AE02323;

XX DT 28-JUL-2005 (first entry)

XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 207.

XX KW Respiratory-Gen.; Antiaschematic; Antiasthmatic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;

XX KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

XX KW siRNA; RNA interference; gene silencing; short interfering RNA.

XX OS Synthetic.

XX PN WO2005045040-A2.

XX PD 19-MAY-2005.

XX PF 20-AUG-2004; 2004WO-US027367.

XX PR 23-OCT-2003; 2003US-00693059.

XX PR 24-NOV-2003; 2003US-00720448.

XX PR 03-DEC-2003; 2003US-00727780.

XX PR 14-JAN-2004; 2004US-00757803.

XX PR 10-FEB-2004; 2004US-0543480P.

XX PR 13-FEB-2004; 2004US-00780447.

XX PR 11-MAR-2004; 2004US-00798090.

XX PR 16-APR-2004; 2004US-00826966.

XX PR 30-APR-2004; 2004WO-US013456.

XX PR 24-MAY-2004; 2004WO-US016390.

XX PR 17-AUG-2004; 2004US-00919866.

XX PA (SIRN-) SIRNA THERAPEUTICS INC.

XX PI Richards I, Macswigen J;

XX DR WPI; 2005-356237/36.

XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.

PS Claim 33; SEQ ID NO 207; 184pp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorder, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGACAGACAGU 1732
DB 1 AGCAGUACGACGACAGACATT 21
RESULT 130
AEA02364/c
ID AEA02364 standard; RNA; 21 BP.
XX
AC AEA02364;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 248.
XX
KW Respiratory-Gen.; Antiaslthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
PA Richards I, Macswigen J;
XX
PI WPI; 2005-356237/36.
XX
DR New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 248; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorder, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
QY 19 AGUACACUCCUCCUUGUUU 39
DB 21 AATACAACTCGCCTTGT 1
RESULT 131
AEA02404/c
ID AEA02404 standard; RNA; 21 BP.
XX
AC AEA02404;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 288.
XX
KW Respiratory-Gen.; Antiaslthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
PA Richards I, Macswigen J;
XX
PI WPI; 2005-356237/36.
XX
DR New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
PS Claim 33; SEQ ID NO 288; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference

PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
PS Claim 33; SEQ ID NO 221; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGACGACGAGU 1732
DB 21 AACAGTACGACGACGACGACGT 1
XX
RESULT 128
AEA02353/C
ID AEA02353 standard; RNA; 21 BP.
XX
AC AEA02353;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 237.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

XX
PS Claim 33; SEQ ID NO 237; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGACGACGAGU 1732
DB 21 AACAGTACGACGACGACGACGT 1
XX
RESULT 129
AEA02376
ID AEA02376 standard; RNA; 21 BP.
XX
AC AEA02376;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 260.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 260; 184bp; English.

DR WPI; 2005-356237/36.
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 271; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 17 ACAGUACAACCCUGCCUUGU 37
DB 1 ACAGUACAACCCUGCCUUTTT 21
RESULT 126
AEA02412/c
ID AEA02412 standard; RNA; 21 BP.
AC AEA02412;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 296.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 296; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
QY 19 AGUACAACCCUGCCUUGUU 39
DB 21 AATRCACACCTCGCTTTGTTT 1
RESULT 127
AEA02337/c
ID AEA02337 standard; RNA; 21 BP.
AC AEA02337;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 221.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing

PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX WPI; 2005-356237/36.
 DR
 XX New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 PS Claim 33; SEQ ID NO 255; 184bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 CC
 SQ Sequence 21 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 0 Other;
 XX
 Query Match 1.1%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 90.5%; Pred. No. 1.7e+02;
 Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 17 ACAGUACAACCCUCCUUGU 37
 DB 1 ACAGUACAACCCUCCUUTT 21
 AEA02417/c
 ID AEA02417 standard; RNA; 21 BP.
 XX
 AC AEA02417;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 301.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 PD
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX

PI Richards I, Macswiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 PS Claim 33; SEQ ID NO 301; 184bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 CC
 SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
 XX
 Query Match 1.1%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.7e+02;
 Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 QY 1712 ACAGUACGACGAGACAGU 1732
 DB 21 AACGTAACGACGAGACAGT 1
 AEA02387
 ID AEA02387 standard; RNA; 21 BP.
 XX
 AC AEA02387;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 271.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 PD
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX

PR	17-AUG-2004; 2004US-00919866.
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
XX	Richards I, Macswigen J;
PI	
XX	WPI; 2005-356237/36.
XX	
XX	New short interfering nucleic acid molecule that directs cleavage of a
PT	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT	disease.
XX	
PS	Claim 33; SEQ ID NO 244; 184pp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (sirna) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The sirna molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	disorders, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 sirna.
XX	
SO	Sequence 21 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 0 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 21;

Query Match	1.1%	Score 19.4	DB 1	Length 21
Best Local Similarity	90.5%	Pred.No. 1.7e+02		
Matches 19, Conservative 1		Mismatches 1	Indels 0	Gaps 0

```
QY      1712 AGCAGUACCGACGAGACAGU 1732
          |||||
Db       1 AGCAGUACCGACGAGACATT 21
```

RESULT 123
AEA02371
ID AEA02371 standard; RNA; 21 BP
XX
AC AEA02371;

DT	28-JUL-2005	(first entry)
XX		
DE		Cholinergic receptor musca

KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinfective

KM Respiratory Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KM Neuroprotective; Nootropic; Utophatic;
 KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimer disease;
 KM mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KM siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 XX Synthetic.
 XS

PN WO20050450

PD 19-MAY-2005.

20-AUG-2004; 2004WO-US027367.

PR 23-OCT-2003; 2003US-00693059.

PR 03-DEC-2003; 2003US-00727780.

PR 10-FEB-2004; 2004US-0543480P.

PR 11-MAR-2004; 2004US-00798090.

PR 30-APR-2004; 2004WO-US013456.

PR 17-AUG-2004; 2004US-00919866.

PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 293; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 21;
XX Best Local Similarity 85.7%; Pred. No. 1.7e+02;
XX Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1712 AGCAGUACGACGACGAGU 1732
XX | |||:|||||||:|||||:
XX Db 21 AACGTAACGACGACGACGACT 1
XX
XX RESULT 120
XX AEA02396/c
XX ID AEA02396 standard; RNA; 21 BP.
XX AC AEA02396;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 280.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 280; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 21;
XX Best Local Similarity 57.1%; Pred. No. 1.7e+02;
XX Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 19 AGUACAACCTCGCCUUGUUU 39
XX | :|||||:|||||:|:
XX Db 21 AATACAACCTCGCCTTGTGT 1
XX
XX RESULT 121
XX AEA02328
XX ID AEA02328 standard; RNA; 21 BP.
XX AC AEA02328;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 212.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.

PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX
PI Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
PS Claim 33; SEQ ID NO 228; 184pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 21 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 0 Other;
XX
XX
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1712 AGCAGUACGACGACGACGACGU 1732
Db 1 AGCAGUACGACGACGACGACGACT 21
XX
XX
RESULT 118
AEA02401/c
ID AEA02401 standard; RNA; 21 BP.
XX
XX AEA02401;
AC
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 285.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.

PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
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XX
PI Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
PS Claim 33; SEQ ID NO 285; 184pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
XX
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1712 AGCAGUACGACGACGACGACGU 1732
Db 21 AACAGTACGACGACGACGACGT 1
XX
XX
RESULT 119
AEA02409/c
ID AEA02409 standard; RNA; 21 BP.
XX
XX AEA02409;
AC
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 293.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.

PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 16-APR-2004; 2004US-00798090.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richard I, Macswigen J;
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 232; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;
XX
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
OY 19 AGUACACCCUGCCUUGUU 39
DB 21 AATACACCTCGCCTTGT 1
XX
XX
XX RESULT 116
AEA02355
ID AEA02355 standard; RNA; 21 BP.
XX
XX AEA02355;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 239.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX

PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX
XX Richard I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 239; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 0 Other;
XX
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
OY 17 ACAGUACACCCUGCCUUGU 37
DB 1 ACAGUACACCCUGCCUUT 21
XX
XX
XX RESULT 117
AEA02344
ID AEA02344 standard; RNA; 21 BP.
XX
XX AEA02344;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 228.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX

OS Synthetic.
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 223; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 21;
XX Best Local Similarity 90.5%; Pred. No. 1.7e+02;
XX Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 17 ACAGUACACCTGCGCCUUGU 37
DB 1 ACAGUACACCTGCGCCUUTT 21
RESULT 114
AEA02369/C
ID AEA02369 standard; RNA; 21 BP.
XX
XX AEA02369;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 253.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX OS
XX PN

PN WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 253; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 19.4; DB 1; Length 21;
XX Best Local Similarity 85.7%; Pred. No. 1.7e+02;
XX Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1712 ACAGUACACGACAGACAGU 1732
DB 21 AACGATACGACGACAGACAGT 1
RESULT 115
AEA02348/C
ID AEA02348 standard; RNA; 21 BP.
XX
XX AEA02348;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 232.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX OS
XX PN
XX WO2005045040-A2.

XX 20-JAN-2005.
 PD
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-0044853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswigen J;
 XX
 XX WPI; 2005-090672/10.
 DR
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX Disclosure; SEQ ID NO 221; 84bp; English.
 PS
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2'-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 XX
 SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
 Query Match 1.1%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.7e+02;
 Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 OY 1712 AGCAGUACCGACGACAGACAGU 1732
 Db | |||:|||||:|||||:
 21 AACAGTACCGACGACGACAGT 1
 RESULT 112
 AEA02380/c
 ID AEA02380 standard; RNA; 21 BP.
 AC
 XX AEA02380;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 264.
 XX
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;

KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 XX Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 XX 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 PI Richards I, Macswigen J;
 XX
 XX WPI; 2005-356237/36.
 DR
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 XX Claim 33; SEQ ID NO 264; 184bp; English.
 PS
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 CC
 XX
 SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;
 Query Match 1.1%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 57.1%; Pred. No. 1.7e+02;
 Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
 OY 19 AGUACAACCGCCUUCUUUU 39
 Db | |||:|||||:|||||:
 21 AATACAACCTCGCTTTGTT 1
 RESULT 113
 AEA02339
 ID AEA02339 standard; RNA; 21 BP.
 AC
 XX AEA02339;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 223.
 XX
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neuroprotective; Nootropic; Uropathic;
 KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX

XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
DR
XX
XX
PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
PT
XX
XX
PS Disclosure; SEQ ID NO 207; 84pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule CC was produced by solid phase oligonucleotide synthesis method. This CC sequence represents an example of a siRNA molecule of the invention.
CC
XX
SQ Sequence 21 BP; 5 A; 7 C; 2 G; 2 T; 5 U; 0 Other;
QY
Best Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Db 17 ACAGUACACGCGCCUUGU 37
1 ACAGUACACGCGCCUUT 21
Db
RESULT 105
ID ADW27915 standard; RNA; 21 BP.
XX
AC ADW27915;
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #212.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.
KW
XX
OS Synthetic.

XX
FH Key Location/Qualifiers
FT musc_difference 20. 21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JUN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX
PA (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswiggen J;
XX
XX
DR WPI; 2005-090672/10.
XX
XX
PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
PT
XX
XX
PS Disclosure; SEQ ID NO 212; 84pp; English.
XX
XX
CC The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule CC was produced by solid phase oligonucleotide synthesis method. This CC sequence represents an example of a siRNA molecule of the invention.
CC
XX
SQ Sequence 21 BP; 8 A; 5 C; 5 G; 2 T; 1 U; 0 Other;
QY
Best Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Db 1712 AGCAGUACGACGACGACAGU 1732
1 AGCAGUACGACGACGACATT 21
Db
RESULT 106
ID ADW27972/C
XX ADW27972 standard; RNA; 21 BP.
XX
AC ADW27972;
XX
XX 07-APR-2005 (first entry)
XX
DT
XX

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DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 264; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other:
SQ
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 12; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
QY 19 AGUACACCCUCCGCUUGUUU 39
DB 21 AATACACCTCGCCTTGTGT 1

RESULT 103
ADW27940/c
ID ADW27940 standard; RNA; 21 BP.
XX
XX ADW27940;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #237.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
OS
XX
XX Key Location/Qualifiers
XX misc_difference 20..21
XX /*tag= a
XX /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-03015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-040129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.

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PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH//) RICHARDS I.
XX (MCSW//) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 237; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other:
SQ
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1712 AGCAGUACCGCAGACAGU 1732
DB 21 AACAGTACCGCAGACAGCT 1

RESULT 104
ADW27910
ID ADW27910 standard; RNA; 21 BP.
XX
XX ADW27910;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #207.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
OS
XX
XX Key Location/Qualifiers
XX misc_difference 20..21
XX /*tag= a
XX /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.

```


PT protein production in cells used in drug development process.
XX
PS Claim 11; SEQ ID NO 6656; 402pp; English.
XX
CC The invention relates to a polynucleotide comprising an RNA sequence. The
XX polynucleotides, vector, libraries, and method are useful in lowering the
CC amount of RNA and/or protein production in cells used in drug development
CC process. The present sequence represents a knock-down target sequence.
XX
SQ Sequence 21 BP; 7 A; 6 C; 7 G; 6 T; 0 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 14; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
Qy 1579 AAUUCGGGCUACUGGUCGUC 1599
Db 1 ACTCTGGGCTACTGCTGTC 21
RESULT 99
ADU41441
ID ADU41441 standard; DNA; 21 BP.
XX
AC ADU41441;
XX
DT 27-JAN-2005 (first entry)
XX
DE Knock-down target sequence #6620.
XX
KW ds; RNA production; protein production; drug development;
XX knock-down target.
XX
OS Unidentified.
XX
PN WO2004094636-A1.
XX
PD 04-NOV-2004.
XX
PF 24-APR-2003; 2003WO-EP004362.
XX
PR 24-APR-2003; 2003WO-EP004362.
XX
PA (GALA-) GALAPAGOS GENOMICS NV.
XX (VSCH/) VAN DER SCHUEREN J.
XX
PI Artes GUF, Lambrecht MJY, Djokic K, Clasen RJ, Mesic B;
PI Griffioen S, Bergs CJL;
XX
DR MPI; 2004-775940/76.
XX
PT New knockdown sequences, useful in lowering the amount of RNA and/or
XX protein production in cells used in drug development process.
XX
PS Claim 11; SEQ ID NO 6657; 402pp; English.
XX
CC The invention relates to a polynucleotide comprising an RNA sequence. The
XX polynucleotides, vector, libraries, and method are useful in lowering the
CC amount of RNA and/or protein production in cells used in drug development
CC process. The present sequence represents a knock-down target sequence.
XX
SQ Sequence 21 BP; 7 A; 6 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 1.1%; Score 19.4; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 18; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 289 AAGCAGCUGAAGACGUCUAC 309
Db 1 ACGCAGCTGAGACGCTCAC 21
RESULT 100

ADW27983/C
ID ADW27983 standard; RNA; 21 BP.
XX
AC ADW27983;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #280.
XX
KW gene expression; antisthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hyperextension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
XX 20-JAN-2005.
XX
PD 11-MAR-2004; 2004US-00798090.
XX
PF 20-FEB-2002; 2002US-0358580P.
XX
PR 11-MAR-2002; 2002US-0363124P.
XX
PR 20-MAY-2002; 2002WO-US015876.
XX
PR 06-JUN-2002; 2002US-0386782P.
XX
PR 29-AUG-2002; 2002US-0406784P.
XX
PR 05-SEP-2002; 2002US-0408378P.
XX
PR 09-SEP-2002; 2002US-0409293P.
XX
PR 15-JAN-2003; 2003US-0440129P.
XX
PR 20-FEB-2003; 2003WO-US005028.
XX
PR 20-FEB-2003; 2003WO-US005346.
XX
PR 30-APR-2003; 2003US-00427160.
XX
PR 23-MAY-2003; 2003US-00444853.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX MPI; 2005-090672/10.
XX
DR Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 280; 84pp; English.
XX
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hyperextension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 21 BP; 8 A; 2 C; 6 G; 2 T; 3 U; 0 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 81.0%; Pred. No. 1.7e+02;
 Matches 17; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

158 ACGGUAACACCGAUGACCCUC 178
 |||||:|||||:|||||:|
 1 ACGGTACCACTGATGACCTC 21

Db

RESULT 96
 ADU41439
 ID ADU41439 standard; DNA; 21 BP.
 AC ADU41439;
 XX
 XX
 DT 27-JAN-2005 (first entry)
 XX
 DE Knock-down target sequence #6618.
 XX
 XX ds; RNA production; protein production; drug development;
 KW Knock-down target.
 XX
 OS Unidentified.
 XX
 PN MO2004094636-A1.
 XX
 PD 04-NOV-2004.
 XX
 PF 24-APR-2003; 2003WO-EP004362.
 XX
 PR 24-APR-2003; 2003WO-EP004362.
 XX
 PA (GALA-) GALAPAGOS GENOMICS NV.
 PA (VSCH/) VAN DER SCHUEREN J.
 PI Arts GJF, Lambrecht MJT, Djokic K, Claesen RJ, Mesic E;
 PI Griffioen S, Bergs CTL;
 XX
 DR WPI; 2004-775940/76.
 XX
 XX
 PT New knockdown sequences, useful in lowering the amount of RNA and/or
 PT protein production in cells used in drug development process.
 XX
 XX
 PS Claim 11; SEQ ID NO 6655; 402pp; English.
 XX
 CC The invention relates to a polynucleotide comprising an RNA sequence. The
 CC polynucleotides, vector, libraries, and method are useful in lowering the
 CC amount of RNA and/or protein production in cells used in drug development
 CC process. The present sequence represents a knock-down target sequence.
 XX
 SQ Sequence 21 BP; 6 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 76.2%; Pred. No. 1.7e+02;
 Matches 16; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

1012 AACACCAUGAUGCTGCTGCC 1032
 |||||:|||||:|||||:|
 1 ACCACACATGATGCTGCTGC 21

Db

RESULT 97
 ADU41542
 ID ADU41542 standard; DNA; 21 BP.
 AC ADU41542;
 XX
 XX
 DT 27-JAN-2005 (first entry)
 XX
 DE Knock-down target sequence #6721.
 XX
 DR ds; RNA production; protein production; drug development;
 XX
 PT

KW knock-down target.
 XX
 OS Unidentified.
 XX
 XX MO2004094636-A1.
 XX
 PD 04-NOV-2004.
 XX
 PF 24-APR-2003; 2003WO-EP004362.
 XX
 PR 24-APR-2003; 2003WO-EP004362.
 XX
 PA (GALA-) GALAPAGOS GENOMICS NV.
 PA (VSCH/) VAN DER SCHUEREN J.
 PI Arts GJF, Lambrecht MJT, Djokic K, Claesen RJ, Mesic E;
 PI Griffioen S, Bergs CTL;
 XX
 DR WPI; 2004-775940/76.
 XX
 XX
 PT New knockdown sequences, useful in lowering the amount of RNA and/or
 PT protein production in cells used in drug development process.
 XX
 XX
 PS Claim 11; SEQ ID NO 6765; 402pp; English.
 XX
 CC The invention relates to a polynucleotide comprising an RNA sequence. The
 CC polynucleotides, vector, libraries, and method are useful in lowering the
 CC amount of RNA and/or protein production in cells used in drug development
 CC process. The present sequence represents a knock-down target sequence.
 XX
 SQ Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 1.1%; Score 19.4; DB 1; Length 21;
 Best Local Similarity 76.2%; Pred. No. 1.7e+02;
 Matches 16; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

547 AAGAGAGCCGUGUGAUGC 567
 |||||:|||||:|||||:|
 1 ACGAGAGCCGCTGTGATGATC 21

Db

RESULT 98
 ADU41440
 ID ADU41440 standard; DNA; 21 BP.
 AC ADU41440;
 XX
 XX
 DT 27-JAN-2005 (first entry)
 XX
 DE Knock-down target sequence #6619.
 XX
 KW ds; RNA production; protein production; drug development;
 KW knock-down target.
 XX
 OS Unidentified.
 XX
 PN MO2004094636-A1.
 XX
 PD 04-NOV-2004.
 XX
 PF 24-APR-2003; 2003WO-EP004362.
 XX
 PR 24-APR-2003; 2003WO-EP004362.
 XX
 PA (GALA-) GALAPAGOS GENOMICS NV.
 PA (VSCH/) VAN DER SCHUEREN J.
 PI Arts GJF, Lambrecht MJT, Djokic K, Claesen RJ, Mesic E;
 PI Griffioen S, Bergs CTL;
 XX
 DR WPI; 2004-775940/76.
 XX
 PT New knockdown sequences, useful in lowering the amount of RNA and/or

XX 11-MAR-2004; 2004US-00798090.
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002MO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003MO-US005028.
XX 20-FEB-2003; 2003US-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX (RICH/) RICHARDS I.
XX (MCSM/) MCSWIGGEN J.
XX Richards I, Mcswiggen J;
XX MPI; 2005-090672/10.
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX Disclosure; SEQ ID NO 205; 84pp; English.
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX CC was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX Sequence 23 BP; 8 A; 4 C; 9 G; 0 T; 2 U; 0 Other;
XX
XX Query Match 1.1%; Score 19.8; DB 1; Length 23;
XX Best Local Similarity 91.3%; Pred. No. 1.9e+02;
XX Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 1712 AGCAGUACCGACGACGACGUCG 1734
XX 1 AGGAGUACCGACGACGACGUCG 23
XX
XX RESULT 95
XX ABS98536 standard; DNA; 21 BP.
XX
XX ABS98536;
XX
XX 23-DEC-2002 (first entry)
XX
XX Human acetyl choline muscarinic receptor 3 polymorphic sequence #2.
XX
XX Human; ds; cytochrome P450 A1; CYP450A1; UGT2B4; MOR1;
XX cytochrome P450 A2; CYP450A2; cytochrome P450 O2B; CYP450O2B1; LTP;
XX adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR112;
XX aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
XX cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
XX epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
XX glutathione-S-transferase 12; GST12; histamine-N-methyl transferase;

KM HMNT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NMNT;
KM MDRP quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;
KM UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
KM UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
KM multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
KM acetylcholine muscarinic receptor; CHRM1; CHRM2; CHRM3; CHMR4; CHMR5;
KM altered drug metabolism; cardiovascular function; colorectal tumour;
KM central nervous system; pulmonary; immunological; SNP;
KM single nucleotide polymorphism.
XX Homo sapiens.
XX
XX NO200257410-A2.
XX
XX 25-JUL-2002.
XX
XX 28-NOV-2001; 2001MO-US044838.
XX
XX 28-NOV-2000; 2000US-00724389.
XX
XX (DNAS-) DNA SCI LAB INC.
XX
XX Guida M, Hall J;
XX MPI; 2002-698522/75.
XX
XX Isolated nucleic acid molecules having polymorphisms in known human genes
XX PT e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers
XX PT for locating, identifying and characterizing the genes responsible for
XX PT disorder-related traits.
XX
XX Example 28; Page 159; 714pp; English.
XX
XX This invention relates to the sequence of an isolated nucleic acid
XX molecule comprising at least one base variation from that of a known
XX human cytochrome P450 A1 (CYP450A1), cytochrome P450 A2 (CYP450A2),
XX cytochrome P450 02B1 (CYP45002B1), adrenergic receptor beta1 (ADRB1),
XX aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
XX (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
XX inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating
XX protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl
XX transferase (NMNT), (kallikrein 2) KLK2, nicotinamide-N-methyl
XX transferase (NMNT), MDRP quinone oxidoreductase 2 (NQO2),
XX sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
XX (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
XX transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1
XX (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
XX (MRP3), orphan nuclear receptor (NR112), or acetylcholine muscarinic
XX receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
XX The polymorphisms in the human genes cited in the invention are useful as
XX genetic linkage markers for locating and characterizing the genes that
XX are responsible for specific traits within the genome and eventually
XX identifying the genes responsible for a variety of disorder-related
XX traits as a result of their e.g., overexpression, constitutive
XX expression, mutation or underexpression, which may be used in diagnosing
XX and/or treating the disorders. The nucleic acid molecules comprising the
XX polymorphic sequences contained in CYP450A1, CYP450A2, CYP4502B1, AHR,
XX ANNT, EPHX2, GST12, NMNT, NQO2, NR112, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
XX MOR1 and/or MDR3 are useful for screening individuals for altered drug
XX metabolism. The polymorphic sequences contained in CYP450A1, CYP450A2,
XX AHR, MDR1 and/or MDR3 may also be used to screen individuals for
XX susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are
XX used to screen for altered cardiovascular function, in COX2 for altered
XX susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
XX nervous system function, in FLAP and NMNT for altered pulmonary,
XX immunological or haematological function, in KLK2 for altered serine
XX protease activity in the prostate, in LTP for altered immunological or
XX haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
XX peripheral nervous system function. The present sequence represents a
XX polymorphic DNA sequence of the invention
XX
XX Sequence 21 BP; 5 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

```

OS Synthetic.
XX Key Location/Qualifiers
XX misc_difference 22..23
XX /tag=a
XX /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 274; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 2 A; 7 C; 4 G; 2 T; 6 U; 2 Other:
XX
XX Query Match 1.1%; Score 20; DB 1; Length 23;
XX Best Local Similarity 95.0%; Pred. No. 1.8e+02;
XX Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 317 UCCUCUAAAGCCGCGCUGU 336
XX |||||
XX 2 UCCUCUAAAGCCGCGCUGU 21
XX
XX RESULT 93
XX ID AAF30781 standard; DNA; 23 BP.
XX AC AAF30781;
XX XX
XX DT 21-JUN-2001 (first entry)

```

```

XX DE CHRM2 gene fragment 2 forward PCR primer.
XX KW Cholinergic receptor muscarinic 2; CHRM2 gene; human; drug screening;
XX KW genotyping; haplotyping; PCR primer; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200127313-A2.
XX
XX PD 19-APR-2001.
XX
XX 12-OCT-2000; 2000WO-US028212.
XX
XX PR 14-OCT-1999; 99US-0159314P.
XX
XX PA (GENA-) GENAISSANCE PHARM INC.
XX
XX PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX
XX WPI; 2001-290729/30.
XX
XX DR New polymorphic polypeptide encoding cholinergic receptor, muscarinic 2,
XX PT (CHRM2), useful for in drug screening assays, comprises serine at amino
XX PT acid position 331.
XX
XX PS Example 1; Page 28; 45pp; English.
XX
XX CC The present sequence is that of a primer corresponding to nucleotides 298
XX CC -320 of the human cholinergic receptor, muscarinic acid 2 (CHRM2) cDNA
XX CC sequence given in AAF30770. It was used as forward primer, with the
XX CC reverse primer given in AAF30782, for the PCR amplification of a 492 bp
XX CC fragment of the CHRM2 gene. The gene was amplified in 5 fragments and
XX CC these were sequenced to detect polymorphisms. A novel A/T polymorphism
XX CC was identified at nucleotide 1185. CHRM2 polymorphic variant
XX CC polynucleotides are used in claimed genotyping and haplotyping methods,
XX CC and the variant polypeptide (see AAB20483) is used in a claimed method
XX CC for drug screening
XX
XX SQ Sequence 23 BP; 6 A; 5 C; 6 G; 6 T; 0 U; 0 Other:
XX
XX Query Match 1.1%; Score 19.8; DB 1; Length 23;
XX Best Local Similarity 69.6%; Pred. No. 1.9e+02;
XX Matches 16; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 239 UGGUGACCAUACGCGCAACUC 261
XX |||||
XX 1 TGGTGACATATACGGGAACATC 23
XX
XX RESULT 94
XX ID ADW27908 standard; RNA; 23 BP.
XX AC ADW27908;
XX
XX DT 07-APR-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #205.
XX
XX KW gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
XX KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX KW incontinence; ss.
XX
XX OS Synthetic.
XX
XX PN US2005014172-A1.
XX XX
XX PD 20-JAN-2005.

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PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 273; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 23 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 2 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 23;
Best Local Similarity 95.0%; Pred. No. 1.8e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 315 CUUCCUCUUAAGCCUGGCCU 334
DB 2 CUUCCUCUUAAGCCUGGCTT 21
XX
RESULT 91
ADM27944
ID ADM27944 standard; RNA; 23 BP.
XX
AC ADM27944;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #241.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
XX Key Location/Qualifiers
FH misc_difference 22..23
FT /tag= a
FT /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX

PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003WO-US005346.
PR 20-FEB-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 241; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 23 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 2 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 23;
Best Local Similarity 95.0%; Pred. No. 1.8e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 315 CUUCCUCUUAAGCCUGGCCU 334
DB 2 CUUCCUCUUAAGCCUGGCTT 21
XX
RESULT 92
ADM27977
ID ADM27977 standard; RNA; 23 BP.
XX
AC ADM27977;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #274.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX


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RESULT 87
ADM27960
ID ADM27960 standard; RNA; 23 BP.
XX
AC ADM27960;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #257.
XX
KW gene expression; antisthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-FEB-2003; 2003WO-US005346.
PR 20-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 257; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX is produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
```

```
SO Sequence 23 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 2 Other;
Query Match 1.1%; Score 20; DB 1; Length 23;
Best Local Similarity 95.0%; Pred. No. 1.8e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Oy 315 CUUCCUCUUAAGCCUGCCU 334
Db 2 CUUCCUCUUAAGCCUGCCCT 21
RESULT 88
ADM27961
ID ADM27961 standard; RNA; 23 BP.
XX
AC ADM27961;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #258.
XX
KW gene expression; antisthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-FEB-2003; 2003WO-US005346.
PR 20-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 258; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
```

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FT      /tag= 3
XX      /note= "deoxythymidine nucleotide"
PN      US2005014172-A1.
PD      20-JAN-2005.
PE      11-MAR-2004; 2004US-00798090.
XX
PR      20-FEB-2002; 2002US-0358580P.
PR      11-MAR-2002; 2002US-0363124P.
PR      20-MAY-2002; 2002WO-US015876.
PR      06-JUN-2002; 2002US-0386782P.
PR      29-AUG-2002; 2002US-0406378P.
PR      05-SEP-2002; 2002US-0408378P.
PR      09-SEP-2002; 2002US-0409293P.
PR      15-JAN-2003; 2003US-0440129P.
PR      20-FEB-2003; 2003WO-US005028.
PR      20-FEB-2003; 2003WO-US005346.
PR      30-APR-2003; 2003US-0042716P.
PR      23-MAY-2003; 2003US-0044485P.
PR      23-OCT-2003; 2003US-0069305P.
PR      24-NOV-2003; 2003US-0072044P.
PR      14-JAN-2004; 2004US-00757803.
XX
PA      (RICH//) RICHARDS I.
PA      (MCSW//) MCSWIGEN J.
XX
PI      Richards I, Mcswigen J,
XX
PI      WPI; 2005-090672/10.
XX
PT      Novel chemically synthesized double stranded short interfering nucleic
PT      acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT      RNA through RNA interference, useful for treating asthma.
XX
PS      Disclosure; SEQ ID NO 226; 84bp; English.
XX
XX      The invention relates to a chemically synthesized double stranded short
XX      interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX      cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX      where each strand of (I) has 19-23 nucleotides, and does not require the
XX      presence of nucleotides having a 2-hydroxy group for mediating RNA
XX      interference. (I) is useful for treating diseases e.g., asthma, allergic
XX      rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX      vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX      Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX      towards nucleases. Double stranded short interfering nucleic acid molecule
XX      was produced by solid phase oligonucleotide synthesis method. This
XX      sequence represents an example of a siRNA molecule of the invention.
XX
SQ      Sequence 23 BP; 2 A; 7 C; 4 G; 2 T; 6 U; 2 Other;
XX
Query Match      1.1%; Score 20; DB 1; Length 23;
Best Local Similarity 95.0%; Pred. No. 1.8e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0
OY      317 UCCUCUUAAGCCUGGCGUGU 336
DB      2 UCCUCUUAAGCCUGGCGUGU 21
XX
RESULT 86
ADW27945
ID      ADW27945 standard; RNA; 23 BP.
XX
AC      ADW27945;
XX
DT      07-APR-2005 (first entry)
XX
XX      Cholinergic receptor muscarinic 3 gene targeted siRNA #242.
XX
XX      gene expression; antiasthmatic; antiinflammatory; CNS-Gen.;
XX

```

KW	respiratory-gen.; hypochromic; gastrointestinal-gen.; neuroprotective;
KW	nootropic; uterapathic; short interfering RNA; RNA interference; siRNA;
KW	cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW	inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW	hyperextension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX	inconitence; ss.
OS	Synthetic.
XX	
FH	Key Location/Qualifiers
FT	misc_difference 22..23
FT	/tag= A
FT	/note= "deoxythymidine nucleotide"
XX	
PN	US2005014172-A1.
XX	
PD	20-JAN-2005.
XX	
PF	11-MAR-2004; 2004US-00798090.
XX	
PR	20-FEB-2002; 2002US-0358580P.
PR	11-MAR-2002; 2002US-0363124P.
PR	20-MAY-2002; 2002WO-US015876.
PR	06-JUN-2002; 2002US-0386782P.
PR	29-AUG-2002; 2002US-0406784P.
PR	05-SEP-2002; 2002US-0408378P.
PR	09-SEP-2002; 2002US-0409233P.
PR	15-JAN-2003; 2003US-0440139P.
PR	20-FEB-2003; 2003WO-US005028.
PR	20-FEB-2003; 2003WO-US005346.
PR	30-APR-2003; 2003US-00427160.
PR	23-MAY-2003; 2003US-0044853.
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	14-JAN-2004; 2004US-00757803.
XX	
PA	(RICH/) RICHARDS I.
PA	(MCSW/) MCSWIGEN J.
PI	Richards I, Mcswigen J;
XX	
DR	WPI; 2005-090672/10.
XX	
PT	Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
PT	
PS	Disclosure; SEQ ID NO 242; 84bp; English.
XX	
CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, emphysema, cystic fibrosis, pulmonary vasoconstriction or hyperextension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinece. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
XX	
SQ	Sequence 23 BP, 2 A; 7 C; 4 G; 2 T; 6 U; 2 Other;
XX	
Query Match	1.1%; Score 20; DB 1; Length 23;
Best Local Similarity	95.0%; Pred.No. 1.8e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;	
OY	317 UCCUCUUAAGCCUGGCUU 336 2 UCCUCUUAAGCCUGGCUU 21
DB	

XX WO2005045040-A2.
XX
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 233; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX Best Local Similarity 70.0%; Pred. No. 1.5e+02;
XX Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 314 ACUUCUCUUAAGCCUGGCC 333
XX ||:||||:||||:||||
XX Db 20 ACTTCTCTTAAGCCUGGCC 1
XX
XX RESULT 84
XX ID AEA02367/c
XX ID AEA02367 standard; RNA; 21 BP.
XX
XX AC AEA02367;
XX
XX DT 28-JUN-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 251.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX KW Neutroprotective; Nootropic; Uropathic;
XX KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
XX KW micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.

XX 19-MAY-2005.
XX
XX PD 20-AUG-2004; 2004WO-US027367.
XX
XX PF 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswiggen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
XX PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX PT disease.
XX
XX PS Claim 33; SEQ ID NO 251; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
XX CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
XX CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
XX CC useful for treating or preventing respiratory and pulmonary diseases,
XX CC disorders, and/or conditions, including chronic obstructive pulmonary
XX CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX Best Local Similarity 95.0%; Pred. No. 1.5e+02;
XX Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 974 AGCAGUGAGCCAGACAC 993
XX ||||:||||:||||:||||
XX Db 20 AGCAGATGACCAAGACAC 1
XX
XX RESULT 85
XX ID ADW27929
XX ID ADW27929 standard; RNA; 23 BP.
XX
XX AC ADW27929;
XX
XX DT 07-APR-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 gene targeted siRNA #226.
XX
XX KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neutroprotective;
XX KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX KW hypertension; emphysema; irritable bowel syndrome; Alzhemiers disease;
XX KW incontinence; ss.
XX
XX OS Synthetic.
XX
XX Key Location/Qualifiers
XX FH misc_difference 22..23
XX FT

micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 siRNA; RNA interference; gene silencing; short interfering RNA.
 Synthetic.
 WO2005045040-A2.
 19-MAY-2005.
 20-AUG-2004; 2004WO-US027367.
 23-OCT-2003; 2003US-00693059.
 24-NOV-2003; 2003US-00720448.
 03-DEC-2003; 2003US-00727780.
 14-JAN-2004; 2004US-00757803.
 10-FEB-2004; 2004US-0543480P.
 13-FEB-2004; 2004US-00780447.
 11-MAR-2004; 2004US-00798090.
 16-APR-2004; 2004US-00826966.
 30-APR-2004; 2004WO-US013456.
 24-MAY-2004; 2004WO-US016390.
 17-AUG-2004; 2004US-00919866.
 (SIRN-) SIRNA THERAPEUTICS INC.
 Richards I, Macswiggen J;
 WPI; 2005-356237/36.
 New short interfering nucleic acid molecule that directs cleavage of a
 cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 disease.
 Claim 33; SEQ ID NO 267; 184pp; English.
 The invention relates to a chemically synthesized double stranded short
 interfering nucleic acid (siNA) molecule that directs cleavage of a
 cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 (RNAi). The siNA molecule, compounds, compositions, and methods are
 useful for treating or preventing respiratory and pulmonary diseases,
 disorders, and/or conditions, including chronic obstructive pulmonary
 disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
 Query Match 1.1%; Score 20; DB 1; Length 21;
 Best Local Similarity 95.0%; Pred. No. 1.5e+02;
 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 974 AGCAGUGAGCCAGACCCAC 993
 |||||:|||||
 DB 20 AGCAGATGAGCCAGACCCAC 1
 RESULT 82
 AEA02407/c
 ID AEA02407 standard; RNA; 21 BP.
 AC AEA02407;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 291.
 XX
 DE Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neuroprotective; Nootropic; Uropathic;
 XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 XX siRNA; RNA interference; gene silencing; short interfering RNA.

Synthetic.
 WO2005045040-A2.
 19-MAY-2005.
 20-AUG-2004; 2004WO-US027367.
 23-OCT-2003; 2003US-00693059.
 24-NOV-2003; 2003US-00720448.
 03-DEC-2003; 2003US-00727780.
 14-JAN-2004; 2004US-00757803.
 10-FEB-2004; 2004US-0543480P.
 13-FEB-2004; 2004US-00780447.
 11-MAR-2004; 2004US-00798090.
 16-APR-2004; 2004US-00826966.
 30-APR-2004; 2004WO-US013456.
 24-MAY-2004; 2004WO-US016390.
 17-AUG-2004; 2004US-00919866.
 (SIRN-) SIRNA THERAPEUTICS INC.
 Richards I, Macswiggen J;
 WPI; 2005-356237/36.
 New short interfering nucleic acid molecule that directs cleavage of a
 cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 disease.
 Claim 33; SEQ ID NO 291; 184pp; English.
 The invention relates to a chemically synthesized double stranded short
 interfering nucleic acid (siNA) molecule that directs cleavage of a
 cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 (RNAi). The siNA molecule, compounds, compositions, and methods are
 useful for treating or preventing respiratory and pulmonary diseases,
 disorders, and/or conditions, including chronic obstructive pulmonary
 disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
 Query Match 1.1%; Score 20; DB 1; Length 21;
 Best Local Similarity 95.0%; Pred. No. 1.5e+02;
 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 974 AGCAGUGAGCCAGACCCAC 993
 |||||:|||||
 DB 20 AGCAGATGAGCCAGACCCAC 1
 RESULT 83
 AEA02349/c
 ID AEA02349 standard; RNA; 21 BP.
 AC AEA02349;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 233.
 XX
 DE Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 XX Neuroprotective; Nootropic; Uropathic;
 XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 XX micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 XX siRNA; RNA interference; gene silencing; short interfering RNA.
 Synthetic.

KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PP 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-0057803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 247; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 16 AACAGUACAACCGCCUUU 35
DB 20 AACGTAACAACCTGCTTT 1
RESULT 80
AEA02381/c
ID AEA02381 standard; RNA; 21 BP.
XX
AC AEA02381;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 265.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;

KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PP 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-0057803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 265; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.5e+02;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 314 ACUUCUUAACCGGCC 333
DB 20 ACTTCTTAAAGCTGGCC 1
RESULT 81
AEA02383/c
ID AEA02383 standard; RNA; 21 BP.
XX
AC AEA02383;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 267.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;

DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 219.
DE
XX Respiratory-Gen.; Antiasthmatic; Anti allergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 219; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, alzheimers disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX Best Local Similarity 95.0%; Pred. No. 1.5e+02;
XX Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 974 AGCAGAGGACCAAGACAC 993
DB 20 AGCAGATGACCAAGACAC 1

RESULT 78
AEA02342
ID AEA02342 standard; RNA; 21 BP.
XX
XX AEA02342;
XX
XX 28-JUL-2005 (first entry)
XX
XX

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 226.
XX
XX Respiratory-Gen.; Antiasthmatic; Anti allergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mucrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 226; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, alzheimers disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 7 C; 4 G; 2 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX Best Local Similarity 95.0%; Pred. No. 1.5e+02;
XX Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 317 UCCUCUUAAGCCUGGCUU 336
DB 1 UCCUCUUAAGCCUGGCUU 20

RESULT 79
AEA02363/C
ID AEA02363 standard; RNA; 21 BP.
XX
XX AEA02363;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 247.
XX
XX

ID AEA02333 standard; RNA; 21 BP.
XX
AC AEA02333;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 217.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 217; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.5e+02;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 314 ACUUCUCUUAAGCCGCC 333
DB 20 ACTTCCTTAAAGCCGCC 1
XX
RESULT 76
AEA02403/c
ID AEA02403 standard; RNA; 21 BP.
XX

AC AEA02403;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 287.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 287; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 16 AACAGUACAACCGCCUUU 35
DB 20 AACAGUACAACCGCCU 1
XX
RESULT 77
AEA02335/c
ID AEA02335 standard; RNA; 21 BP.
XX
AC AEA02335;
XX

RESULT 73
AEA02347/c
ID AEA02347 standard; RNA; 21 BP.
XX
AC AEA02347;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 231.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004MO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004MO-US013456.
XX
PR 24-MAY-2004; 2004MO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
PS Claim 33; SEQ ID NO 231; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 16 AACAGAACACGCGCCUUV 35
DB 20 AACGTAACACCTGCTTT 1

RESULT 74
AEA02365/c
ID AEA02365 standard; RNA; 21 BP.
XX
AC AEA02365;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 249.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neutroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubule disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004MO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004MO-US013456.
XX
PR 24-MAY-2004; 2004MO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX
PS Claim 33; SEQ ID NO 249; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.5e+02;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 314 ACUCCUCUUAACCGGCC 333
DB 20 ACTTCTTAAGCTGACC 1

RESULT 75
AEA02353/c

OY 317 UCCUCUUAAGCCUGGCCU 336
|||||
1 UCCUCUUAAGCCUGGCCUGT 20

Db

RESULT 71
AEA02397/c
ID AEA02397 standard; RNA; 21 BP.
AC AEA02397;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholineergic receptor muscarinic 3 siRNA SEQ ID NO 281.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mucritution disorder; cholineergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholineergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 281; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholineergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholineergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
SQ

Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.5e+02;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 314 ACUCCUUAAGCCUGGCC 333

Db ||::||::||::||::||
20 ACTTCCTTAAGCCTGCC 1

RESULT 72
AEA02341
ID AEA02341 standard; RNA; 21 BP.
XX
XX AEA02341;
AC
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholineergic receptor muscarinic 3 siRNA SEQ ID NO 225.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mucritution disorder; cholineergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US016390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
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XX PI Richards I, Macswigen J;
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XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholineergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 225; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholineergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholineergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 0 Other;
SQ

Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 315 CUUCUCUUAAGCCUGGCCU 334
|||||
1 CUUCUCUUAAGCCUGGCCCT 20

Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 317 UCCUCUUAAGCCUGGCCUGU 336
Db 1 UCCUCUUAAGCCUGGCCUGT 20

RESULT 69
AEA02358
ID AEA02358 standard; RNA; 21 BP.
AC AEA02358;
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 242.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US013390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richarde I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 242; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 7 C; 4 G; 2 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX
XX Best Local Similarity 95.0%; Pred. No. 1.5e+02;
XX Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 317 UCCUCUUAAGCCUGGCCUGU 336
Db 1 UCCUCUUAAGCCUGGCCUGT 20

RESULT 70
AEA02390
ID AEA02390 standard; RNA; 21 BP.
AC AEA02390;
DT 28-JUL-2005 (first entry)
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 274.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.
XX 30-APR-2004; 2004WO-US013456.
XX 24-MAY-2004; 2004WO-US013390.
XX 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richarde I, Macswigen J;
XX
XX WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX disease.
XX
XX Claim 33; SEQ ID NO 274; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX (RNAi). The siNA molecule, compounds, compositions, and methods are
XX useful for treating or preventing respiratory and pulmonary diseases,
XX disorders, and/or conditions, including chronic obstructive pulmonary
XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 7 C; 4 G; 2 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX
XX Best Local Similarity 95.0%; Pred. No. 1.5e+02;
XX Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 974 AGCAGATGACCAAGACCAC 993
DB 20 AGCAGATGACCAAGACCAC 1
RESULT 67
AEA02351/c
ID AEA02351 standard; RNA; 21 BP.
XX
AC AEA02351;
XX
DT 28-JUL-2005 (first entry)
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 235.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 235; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

XX
SQ Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 974 AGCAGATGACCAAGACCAC 993
DB 20 AGCAGATGACCAAGACCAC 1
RESULT 68
AEA02326
ID AEA02326 standard; RNA; 21 BP.
XX
AC AEA02326;
XX
DT 28-JUL-2005 (first entry)
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 210.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW microtubion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 210; 184bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 2 A; 7 C; 4 G; 2 T; 6 U; 0 Other;

CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;

Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 16 AACAGUACACCCUGCCUUU 35
DB 20 AACAGUACACCCUGCCU 1

RESULT 65
ID AEA02373 standard; RNA; 21 BP.
AC AEA02373;
XX 28-JUL-2005 (first entry)
XX

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 257.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; Alzheimer's disease;
XX mucritulion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX OS
XX WO2005045040-A2.
XX PN
XX 19-MAY-2005.
XX PD
XX 20-AUG-2004; 2004WO-US027367.
XX PF
XX 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX PA
XX Richards I, Macswiggen J;
XX PI
XX WPI; 2005-356237/36.
XX DR
XX

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 257; 184pp; English.
XX PS
XX

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,

CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SQ Sequence 21 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 0 Other;

Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUUCCUUAAGCCUGCCU 334
DB 1 CUUCCUUAAGCCUGCCU 20

RESULT 66
ID AEA02415/c
XX AEA02415 standard; RNA; 21 BP.
XX AC AEA02415;
XX 28-JUL-2005 (first entry)
XX

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 299.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; Alzheimer's disease;
XX mucritulion disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX OS
XX WO2005045040-A2.
XX PN
XX 19-MAY-2005.
XX PD
XX 20-AUG-2004; 2004WO-US027367.
XX PF
XX 23-OCT-2003; 2003US-00693059.
XX PR 24-NOV-2003; 2003US-00720448.
XX PR 03-DEC-2003; 2003US-00727780.
XX PR 14-JAN-2004; 2004US-00757803.
XX PR 10-FEB-2004; 2004US-0543480P.
XX PR 13-FEB-2004; 2004US-00780447.
XX PR 11-MAR-2004; 2004US-00798090.
XX PR 16-APR-2004; 2004US-00826966.
XX PR 30-APR-2004; 2004WO-US013456.
XX PR 24-MAY-2004; 2004WO-US016390.
XX PR 17-AUG-2004; 2004US-00919866.
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XX Richards I, Macswiggen J;
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PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
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XX Claim 33; SEQ ID NO 299; 184pp; English.
XX PS
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CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
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CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP, 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.5e+02;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
Qy 314 ACTUCCCUUAGCCUGGCC 333
Db 20 ACTTCCTTAAGCCTGGCC 1
XX
RESULT 63
ID AEA02374 standard; RNA; 21 BP.
XX
AC AEA02374;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 258.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
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PI Richards I, Macswigen J;
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DR WPI; 2005-356237/36.
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PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 258; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short

CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP, 2 A; 7 C; 4 G; 2 T; 6 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 317 UCCUCUUAAGCCUGCCUGU 336
Db 1 UCCUCUUAAGCCUGCCUGU 20
XX
RESULT 64
ID AEA02331/c standard; RNA; 21 BP.
XX
AC AEA02331;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 215.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
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PA (SIRN-) SIRNA THERAPEUTICS INC.
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PI Richards I, Macswigen J;
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DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 215; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference

PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 209; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative. 1; Mismatches 0; Indels 0; Gaps 0;
QY 315 CUUCCUUAAGCCUGGCU 334
DB 1 CUUCCUUAAGCCUGGCU 20
RESULT 61
AEA02399/c
ID AEA02399 standard; RNA; 21 BP.
XX
AC AEA02399;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 283.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

XX
PS Claim 33; SEQ ID NO 283; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 974 AGCAGUGGACCAAGCCAC 993
DB 20 AGCAGUGGACCAAGCCAC 1
RESULT 62
AEA02405/c
ID AEA02405 standard; RNA; 21 BP.
XX
AC AEA02405;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 289.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutropoietic; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX microtubulin disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswigen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 289; 184pp; English.

DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 241; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 315 CUUCCUCUUAAGCCUGGCGU 334
DB 1 CUUCCUCUUAAGCCUGGCGCT 20
RESULT 59
AEA02379/c
ID AEA02379 standard; RNA; 21 BP.
AC AEA02379;
DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 263.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX WO2005045040-A2.
PN
XX 19-MAY-2005.
PD
XX 20-AUG-2004; 2004WO-US027367.
PF
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX Richards I, Macswiggen J;
PI
XX WPI; 2005-356237/36.
DR
XX

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 263; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
OY 16 AACAGUACAACCCUGCCUU 35
DB 20 AACGTAACAACCTCGCCTT 1
RESULT 60
AEA02325
ID AEA02325 standard; RNA; 21 BP.
AC AEA02325;
DT 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 209.
DE
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mcturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX WO2005045040-A2.
PN
XX 19-MAY-2005.
PD
XX 20-AUG-2004; 2004WO-US027367.
PF
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PA
XX Richards I, Macswiggen J;
PI
XX WPI; 2005-356237/36.
DR
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT

PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 295; 184bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
 XX
 Query Match 1.1%; Score 20; DB 1; Length 21;
 Best Local Similarity 75.0%; Pred. No. 1.5e+02; Indels 0; Gaps 0;
 Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 16 AACAGUACAACCCUGCCUUU 35
 Db |||:|||||:|||||:|
 20 AACAGTACAACCTCGCCTTT 1
 XX
 RESULT 57
 AEA02413/c
 ID AEA02413 standard; RNA; 21 BP.
 AC
 XX AEA02413;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 297.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micronutrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 OS
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 XX

PI Richards I, Macswiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 297; 184bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
 XX
 Query Match 1.1%; Score 20; DB 1; Length 21;
 Best Local Similarity 70.0%; Pred. No. 1.5e+02; Indels 0; Gaps 0;
 Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 314 ACUCCUCUUAAGCCUGGCC 333
 Db |||:|||||:|||||:|
 20 ACTTCCTCTTAAGCCUGGCC 1
 XX
 RESULT 58
 AEA02357
 ID AEA02357 standard; RNA; 21 BP.
 AC
 XX AEA02357;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 241.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
 KW micronutrition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 OS
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 XX Richards I, Macswiggen J;
 PI
 XX

PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 273; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
QY 315 CUUCCUCUUAAGCCUGCCU 334
DB 1 CUUCCUCUUAAGCCUGCCU 20
XX
XX RESULT 55
AEA02395/c
ID AEA02395 standard; RNA; 21 BP.
XX
XX AC AEA02395;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 279.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
XX

PR 17-AUG-2004; 2004US-00919866.
XX
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX PI Richards I, Macswigen J;
XX
XX DR WPI; 2005-356237/36.
XX
XX PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX PS Claim 33; SEQ ID NO 279; 184pp; English.
XX
XX CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
QY 16 AACAGUACAACUUGCCU 35
DB 20 AACAGUACAACUUGCCU 1
XX
XX RESULT 56
AEA02411/c
ID AEA02411 standard; RNA; 21 BP.
XX
XX AC AEA02411;
XX
XX DT 28-JUL-2005 (first entry)
XX
XX DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 295.
XX
XX KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzhemers disease;
KW micrurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX OS Synthetic.
XX
XX PN WO2005045040-A2.
XX
XX PD 19-MAY-2005.
XX
XX PF 20-AUG-2004; 2004WO-US027367.
XX
XX PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX

PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 251; 84pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siNA molecule of the invention.
XX
SQ Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 974 AGCAGAGGACCCAGACAC 993
|||:|||||:|||||:|||||
Db 20 AGCAGATGGACCAAGACAC 1
XX
RESULT 53
ADW27984/c
ID ADW27984 standard; RNA; 21 BP.
XX
AC ADW27984;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #281.
XX
KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX Synthetic.
OS
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409233P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-0005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-0044853.
XX 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-0072044B.
PR 14-JAN-2004; 2004US-00757803.
XX
XX PA (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGGEN J.
XX
XX PI Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 281; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siNA molecule of the invention.
XX
SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.5e+02;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
OY 314 ACUUCUCUUAAGCCUGGCC 333
||:||||:|||||:|||||
Db 20 ACTTCCTTAAAGCCTGGCC 1
XX
RESULT 54
AEA02389
ID AEA02389 standard; RNA; 21 BP.
XX
AC AEA02389;
XX
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 273.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neuroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
OS
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-0072044B.
XX 03-DEC-2003; 2003US-00727780.
XX 14-JAN-2004; 2004US-00757803.
XX 10-FEB-2004; 2004US-0543480P.
XX 13-FEB-2004; 2004US-00780447.
XX 11-MAR-2004; 2004US-00798090.
XX 16-APR-2004; 2004US-00826966.

Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 314 ACUCCUCUUAAGCCUGGCC 333
||::||::||::||::||
Db 20 ACTTCCTCTTAAGCTGCGCC 1

RESULT 51
ADM27952/C
ID ADM27952 standard; RNA; 21 BP.
XX
AC ADM27952;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #249.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20. .21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 249; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic

CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimers disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;

Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.5e+02;
Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 314 ACUCCUCUUAAGCCUGGCC 333
||::||::||::||::||
Db 20 ACTTCCTCTTAAGCTGCGCC 1

RESULT 52
ADM27954/C
ID ADM27954 standard; RNA; 21 BP.
XX
AC ADM27954;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #251.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20. .21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic

KM		hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XV		incontinence; ss,
OS	Synthetic.	
XX		
FR	Key	Location/Qualifiers
FH	misc_difference	20..21
FT	/+tag=	a
FT	/note=	"deoxyrhymidine nucleotide"
XX		
PX	US2005014172-A1.	
PD	20-JAN-2005.	
XX		
PP	11-MAR-2004; 2004US-00798090.	
XX		
PR	20-FEB-2002; 2002US-0358580P.	
PR	11-MAR-2002; 2002US-0363124P.	
PR	20-MAY-2002; 2002WO-US015876.	
PR	06-JUN-2002; 2002US-0366782P.	
PR	'29-AUG-2002; 2002US-0406784P.	
PR	05-SEP-2002; 2002US-0408378P.	
PR	09-SEP-2002; 2002US-0409292P.	
PR	15-JAN-2003; 2003US-0440129P.	
PR	20-FEB-2003; 2003WO-US005028.	
PR	20-FEB-2003; 2003US-00505346.	
PR	30-APR-2003; 2003US-00427160.	
PR	23-MAY-2003; 2003US-00444853.	
PR	23-OCT-2003; 2003US-00693059.	
PR	24-NOV-2003; 2003US-00720448.	
PR	14-JAN-2004; 2004US-00757803.	
XX	(RICH//) RICHARDS I.	
PA	(MCsw/) MCswIGEN J.	
XX		
PI	Richards I, Mcswigen J;	
DR	WPI; 2005-090672/10.	
XX		
PT	Noel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.	
PS	Disclosure; SEQ ID NO 217; 84bp; English.	
XX		
CC	The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (II) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (III) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.	
SO	Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;	
OY	Query Match 1.1%; Score 20; DB 1; Length 21; Best Local Similarity 70.0%; Pred.No.1.5e+02; Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;	
DB	314 ACUUCUCUAAGCUCGACC 333 :: ::: 20 ACTTCCTTAAGCCTGC 1	
RESULT 50		
ID	ADWM27936/C	
XX	ADWM27936 standard; RNA; 21 BP.	

AC	ADW27936;
XX	
DT	07-APR-2005 (first entry)
DE	Cholinergic receptor muscarinic 3 gene targeted siRNA #233.
XX	
KM	gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW	respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW	neurotic; urapathic; short interfering RNA; RNA interference; siRNA;
KM	cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM	inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM	hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX	incontinence; ss.
OS	Synthetic.
FH	
FT	Key Location/Qualifiers
FT	misc_difference 20..21
FT	/tag=a
FT	/note= "deoxythymidine nucleotide"
PN	US2005014172-A1.
XX	
PD	20-JAN-2005.
XX	
PF	11-MAR-2004; 2004US-00798090.
XX	
PR	20-FEB-2002; 2002US-0358580P.
PR	11-MAR-2002; 2002US-0363124P.
PR	20-MAY-2002; 2002WO-US015876.
PR	06-JUN-2002; 2002US-0386782P.
PR	29-AUG-2002; 2002US-0406784P.
PR	05-SEP-2002; 2002US-0408378P.
PR	09-SEP-2002; 2002US-0409293P.
PR	15-JAN-2003; 2003US-0440129P.
PR	20-FEB-2003; 2003WO-US005028.
PR	20-FEB-2003; 2003WO-US005346.
PR	30-APR-2003; 2003US-0042716P.
PR	23-MAY-2003; 2003US-0044485P.
PR	23-OCT-2003; 2003US-0069305P.
PR	24-NOV-2003; 2003US-00720448.
PR	14-JAN-2004; 2004US-00757803.
XX	
PA	(RICH/) RICHARDS I.
PA	(MCSW/) MCSWIGGEN J.
XX	
P1	Richards I, Mcswiggen J;
DR	WPI; 2005-090672/10.
XX	
PT	Novel chemically synthesized double stranded short interfering nucleic
PT	acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT	RNA through RNA interference, useful for treating asthma.
XX	
PS	Disclosure; SEQ ID NO 233; 84pp; English.
CC	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC	where each strand of (I) has 19-23 nucleotides, and does not require the
CC	presence of nucleotides having a 2-hydroxy group for mediating RNA
CC	interference. (I) is useful for treating diseases e.g., asthma, allergic
CC	rhnitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC	vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC	Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC	towards nucleases. Double stranded short interfering nucleic acid molecule
CC	was produced by solid phase oligonucleotide synthesis method. This
CC	sequence represents an example of a siRNA molecule of the invention.
XX	
SQ	Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
Query Match	1.1%; Score 20; DB 1; Length 21;
Best Local Similarity	70.0%; Pred No. 1.5e+02;

PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX
PI Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
XX
XX
PS Disclosure; SEQ ID NO 267; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
SQ
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 974 AGCAGUGACCAACAGACAC 993
DB 20 AGCAGTGAACCAACAC 1
RESULT 48
ADM27982/C
ID ADM27982 standard; RNA; 21 BP.
XX
AC ADM27982;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #279.
DE
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uteropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
FH misc_difference 20; 21
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.

XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX
PI Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
XX
XX
PS Disclosure; SEQ ID NO 279; 84bp; English.
XX
XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
SQ
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 16 AACAGUACAACCCGCGCUU 35
DB 20 AACAGTGAACCTCGCCTT 1
RESULT 49
ADM27920/C
ID ADM27920 standard; RNA; 21 BP.
XX
AC ADM27920;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #217.
DE
XX
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uteropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX
XX

XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, emphysema, irritable bowel syndrome,
CC vasoconstriction or hypertension, urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 21 BP, 5 A, 2 C, 7 G, 2 T, 5 U, 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 16 AACAGUACAACCCGCTTU 35
DB 20 AACAGTACAACCTCGCTTT 1
RESULT 46
ADW27950/C
ID ADW27950 standard; RNA; 21 BP.
XX
AC ADW27950;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #247.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409283P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003MO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.

PA (MCSW/) MCSWIGEN J.
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
DR
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 247; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 21 BP, 5 A, 2 C, 7 G, 2 T, 5 U, 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 16 AACAGUACAACCCGCTTU 35
DB 20 AACAGTACAACCTCGCTTT 1
RESULT 47
ADW27970/C
ID ADW27970 standard; RNA; 21 BP.
XX
AC ADW27970;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #267.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX

Db 1 UCCUCUUAAGCCUGGCCUGT 20

RESULT 44
ID ADW27986/c
ADW27986 standard; RNA; 21 BP.

AC ADW27986;
XX
XX
DT 07-APR-2005 (first entry)
XX
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #283.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic, short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
FH misc_difference 20..21
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00693059.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX PS Disclosure; SEQ ID NO 283; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule

CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siNA molecule of the invention.
XX
XX
SQ Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 974 AGCAGAGGACCAAGACAC 993
DB 20 AGCAGATGACCAAGACAC 1
RESULT 45
ID ADW27918/c
ADW27918 standard; RNA; 21 BP.
XX
XX ADW27918;
XX
XX 07-APR-2005 (first entry)
XX
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #215.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic, short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
FH misc_difference 20..21
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00693059.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX PS Disclosure; SEQ ID NO 215; 84pp; English.


```
XX Key Location/Qualifiers
FH misc_difference 20..21
FT /*tag a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 231; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX Best Local Similarity 75.0%; Pred. No. 1.5e+02;
XX Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
XX 16 AACAGUACAACCCGCGCUU 35
XX |||||:|||||:|||||:
XX Db 20 AACAGTACAACTCCGCTTT 1
XX
XX RESULT 43
XX ADW27913
XX ID ADW27913 standard; RNA; 21 BP.
XX
XX AC ADW27913;
XX
XX 07-APR-2005 (first entry)
XX
```

```
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #210.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
FH misc_difference 20..21
FT /*tag a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 210; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 2 A; 7 C; 4 G; 2 T; 6 U; 0 Other;
XX
XX Query Match 1.1%; Score 20; DB 1; Length 21;
XX Best Local Similarity 95.0%; Pred. No. 1.5e+02;
XX Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX 317 UCCUCUUAAGCCUGCGCUU 336
XX |||||:|||||:|||||:
XX
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PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 219; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
QY 974 AGCAGUAGCAACGACGAC 993
Db 20 AGCAGATGAGCACGACGAC 1
XX
RESULT 41
ADM27966/C
ID ADM27966 standard; RNA; 21 BP.
XX
AC ADM27966;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #263.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note="deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.

XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 263; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 21 BP; 5 A; 2 C; 7 G; 2 T; 5 U; 0 Other;
XX
Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 15; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
QY 16 AACAGUACAACGCGCCUUU 35
Db 20 AACAGTACACCTCGCCTTT 1
XX
RESULT 42
ADM27934/C
ID ADM27934 standard; RNA; 21 BP.
XX
AC ADM27934;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #231.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.

CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 21 BP; 6 A; 3 C; 8 G; 2 T; 2 U; 0 Other;
 Query Match 1.1%; Score 20; DB 1; Length 21;
 Best Local Similarity 70.0%; Pred. No. 1.5e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 14; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 Oy 314 ACUCCUCUUAAGCCUGGCC 333
 Db 20 ACTTCCTCTTAGCCCTGGCC 1
 RESULT 39
 ADM27912
 ID ADM27912 standard; RNA; 21 BP.
 AC ADM27912;
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #209.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.
 XX
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FT misc_difference 20..21
 FT /tag= a
 FT /note= "deoxythymidine nucleotide"
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
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 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-0044853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGEN J.
 XX
 XX Richards I, Mcswigen J;

DR WPI; 2005-090672/10.
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 209; 84pp; English.
 CC
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 CC
 SQ Sequence 21 BP; 2 A; 8 C; 3 G; 2 T; 6 U; 0 Other;
 Query Match 1.1%; Score 20; DB 1; Length 21;
 Best Local Similarity 95.0%; Pred. No. 1.5e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Oy 315 CUUCCUCUUAAGCCUGCCU 334
 Db 1 CUUCCUCUUAAGCCUGCCU 20
 RESULT 40
 ADM27922/C
 ID ADM27922 standard; RNA; 21 BP.
 AC ADM27922;
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #219.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.
 XX
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FT misc_difference 20..21
 FT /tag= a
 FT /note= "deoxythymidine nucleotide"
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.

ADW27938/c
ID ADW27938 standard; RNA; 21 BP.
XX
AC ADW27938;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #235.
XX
KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 09-SEP-2002; 2002US-0408378P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 235; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 21 BP; 1 A; 5 C; 6 G; 2 T; 7 U; 0 Other;

Query Match 1.1%; Score 20; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
CY 974 AGCAGUGACCAAGACCAC 993
DB 20 AGCAGATGCACCAAGACCAC 1
RESULT 38
ADW27968/c
ID ADW27968 standard; RNA; 21 BP.
XX
AC ADW27968;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #265.
XX
KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 20..21
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 09-SEP-2002; 2002US-0408378P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 265; 84bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,

KW altered drug metabolism; cardiovascular function; colorectal tumour;
 KW central nervous system; pulmonary; immunological; SNP;
 KW single nucleotide polymorphism.
 OS Homo sapiens.
 XX MO200257410-A2.
 XX
 XX
 XX 25-JUL-2002.
 XX
 XX 28-NOV-2001; 2001WO-US044838.
 XX
 XX 28-NOV-2000; 2000US-00724389.
 XX
 XX (DNAS-) DNA SCI LAB INC.
 XX
 XX Guida M, Hall J;
 XX
 XX WPI; 2002-698522/75.
 XX
 XX
 XX Isolated nucleic acid molecules having polymorphisms in known human genes
 XX e.g. cytochrome P450 and catepsin S useful as genetic linkage markers
 XX for locating, identifying and characterizing the genes responsible for
 XX disorder-related traits.
 XX
 XX Example 28; Page 159; 714pp; English.
 XX
 XX This invention relates to the sequence of an isolated nucleic acid
 XX molecule comprising at least one base variation from that of a known
 XX human cytochrome P450 A1 (CYP450A1), cytochrome P450 A2 (CYP450A2),
 XX cytochrome P450 02B1 (CYP45002B1), adrenergic receptor beta1 (ADBR1),
 XX aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
 XX (ARNT), catepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
 XX inhibitor (DBI), epoxide hydrolase 2 (EPHX2), 5-lipoxygenase activating
 XX protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl
 XX transferase (HNMT), (kallikrein 2) KLK2, nicotinamide -N-methyl
 XX transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),
 XX sulfoltransferase theromolabile (STM), UDP-glucuronosyl transferase 2B4
 XX (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
 XX transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1
 XX (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
 XX (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic
 XX receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
 XX The polymorphisms in the human genes cited in the invention are useful as
 XX genetic linkage markers for locating and characterizing the genes that
 XX are responsible for specific traits within the genome and eventually
 XX identifying the genes responsible for a variety of disorder-related
 XX traits as a result of their e.g., overexpression, constitutive
 XX expression, mutation or underexpression, which may be used in diagnosing
 XX and/or treating the disorders. The nucleic acid molecules comprising the
 XX polymorphic sequences contained in CYP450A1, CYP450A2, CYP4502B1,
 XX ARNT, EPHX2, GST12, NNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
 XX MDR1 and/or MRP3 are useful for screening individuals for altered drug
 XX metabolism. The polymorphic sequences contained in CYP450A1, CYP450A2,
 XX AHR, MRP1 and/or MRP3 may also be used to screen individuals for
 XX susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are
 XX used to screen for altered cardiovascular function. In COX2 for altered
 XX susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
 XX nervous system function, in FLAP and HNMT for altered pulmonary,
 XX immunological or haematological function, in KLK2 for altered serine
 XX protease activity in the prostate, in LTF for altered immunological or
 XX haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
 XX peripheral nervous system function. The present sequence represents a
 XX polymorphic DNA sequence of the invention
 XX
 XX Sequence 21 BP; 5 A; 9 C; 4 G; 3 T; 0 U; 0 Other;
 XX
 XX
 XX Query Match 1.2%; Score 21; DB 1; Length 21;
 XX Best Local Similarity 85.7%; Pred. No. 1.1e+02;
 XX Matches 18; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX 158 ACGGACACCGACCGACCCCTC 178
 XX |||||:|||||:|||||:|||||:|

DB 1 ACGGACACCGACCGACCCCTC 21
 DB
 DB RESULT 36
 DB AAD05887
 DB ID AAD05887 standard; DNA; 20 BP.
 DB
 DB AAD05887;
 DB
 DB 31-JUL-2001 (first entry)
 DB
 DB
 DB Human CHRM3 gene amplifying forward primer #4.
 DB
 DB Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
 DB single nucleotide polymorphism; forensic application; gene therapy;
 DB Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
 DB sudden infant death syndrome; genotyping; haploctyping;
 DB chromosome 1q41-q44; PCR primer; ss.
 DB
 DB Homo sapiens.
 DB
 DB OS
 DB
 DB PN MO200129176-A2.
 DB
 DB 26-APR-2001.
 DB
 DB 12-OCT-2000; 2000WO-US028247.
 DB
 DB 15-OCT-1999; 99US-0159860P.
 DB
 DB (GENA-) GENA1SSANCE PHARM INC.
 DB
 DB Choi JY, Denton RR, Nandabalan K, Stephens JC;
 DB WPI; 2001-300326/31.
 DB
 DB Novel polymorphic variant of reference sequence for human cholinergic
 DB receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
 DB purposes.
 DB
 DB Example 1; Page 29; 54pp; English.
 DB
 DB The patent relates to polymorphic variants of human cholinergic receptor,
 DB muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
 DB single nucleotide polymorphism selected from cytosine at P51, adenine at
 DB P52 or P53, and cytosine at P54. The invention also relates to a method
 DB for genotyping and haplotyping the CHRM3 gene for identification of
 DB variants. The polymorphic variant is useful for therapeutic purposes, for
 DB studying the expression and biological function of CHRM3, as well as for
 DB developing drugs targeting the CHRM3 protein. The variant is also useful
 DB in diagnostics and forensic applications. The recombinant nonhuman
 DB organism transfected with the polymorphic variant is useful for studying
 DB expression of CHRM3 isogenes in vivo, for in vivo screening and testing
 DB of drugs targeted against CHRM3 protein, and for testing the efficacy of
 DB therapeutic agents and compounds for Alzheimer's disease, Sjogren's
 DB syndrome, disorders associated with smooth muscle contractility and
 DB sudden infant death syndrome. The CHRM3 protein variant is useful in drug
 DB screening assays and its antibodies are useful in immunoassays to detect
 DB CHRM3 protein variants in biological samples. The present sequence is a
 DB PCR primer used for amplifying a fragment of human CHRM3 gene for
 DB detecting polymorphic sites
 DB
 DB Sequence 20 BP; 7 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
 DB
 DB
 DB Query Match 1.1%; Score 20; DB 1; Length 20;
 DB Best Local Similarity 90.0%; Pred. No. 1.3e+02;
 DB Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 DB
 DB 896 GCAUGAAGCCGACCAACAG 915
 DB |||||:|||||:|||||:|||||:|
 DB 1 GCATGAAACGCTCCAAACAG 20
 DB
 DB RESULT 37

XX OS Homo sapiens.
XX PN WO200129176-A2.
XX PD 26-APR-2001.
XX PF 12-OCT-2000; 2000MO-US028247.
XX PR 15-OCT-1999; 99US-0159860P.
XX PA (GENA-) GENAISSANCE PHARM INC.
XX PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX DR WPI; 2001-300326/31.
XX PT Novel polymorphic variant of reference sequence for human cholinergic
XX PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
XX PT purposes.
XX PS Example 1; Page 29; 54pp; English.
XX CC The patent relates to polymorphic variants of human cholinergic receptor,
XX CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
XX CC single nucleotide polymorphism selected from cytosine at P81, adenine at
XX CC P82 or P83, and cytosine at P84. The invention also relates to a method
XX CC for genotyping and haplotyping the CHRM3 gene for identification of
XX CC variants. The polymorphic variant is useful for therapeutic purposes, for
XX CC studying the expression and biological function of CHRM3, as well as for
XX CC developing drugs targeting the CHRM3 protein. The variant is also useful
XX CC in diagnostics and forensic applications. The recombinant nonhuman
XX CC organism transfected with the polymorphic variant is useful for studying
XX CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing of
XX CC drugs targeted against CHRM3 protein, and for testing the efficacy of
XX CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
XX CC syndrome, disorders associated with smooth muscle contractility and
XX CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
XX CC screening assays and its antibodies are useful in immunoassays to detect
XX CC CHRM3 protein variants in biological samples. The present sequence is a
XX CC PCR primer used for amplifying a fragment of human CHRM3 gene for
XX CC detecting polymorphic sites
XX SQ Sequence 22 BP; 4 A; 8 C; 4 G; 6 T; 0 U; 0 Other;
QY Query Match 1.2%; Score 22; DB 1; Length 22;
Db Best Local Similarity 72.7%; Pred. No. 92;
Matches 16; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 99 CGUCACUACUUUCGACGACUAC 120
Db 1 CGTCACTCATTTTCGGCAGCTAC 22
RESULT 34
AAH62586
ID AAH62586 standard; DNA; 21 BP.
XX AAH62586;
XX AC
XX DT 09-SEP-2004 (revised)
XX DT 12-SEP-2001 (first entry)
XX DE CHRM1 polymorphism containing DNA fragment #487.
XX KW Single nucleotide polymorphism; SNP; human; cancer; inflammation;
XX KW heart disease; paternity testing; forensic science; ds.
XX OS Homo sapiens.
XX OS Unidentified.
XX FT Key Location/Qualifiers
XX FT variation 11

FT FT /*tag= a
XX FT /standard_name= "single nucleotide polymorphism"
XX PN WO200138576-A2.
XX PD 31-MAY-2001.
XX PF 17-NOV-2000; 2000MO-US031639.
XX PR 24-NOV-1999; 99US-0167334P.
XX PA (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX PI Cargill M, Ireland JS, Lander ES;
XX DR WPI; 2001-367705/38.
XX PT New nucleic acid segments of the human genome, particularly from genes
XX PT including polymorphic sites, for phenotype correlation, forensics,
XX PT paternity testing, medicine and genetic analysis.
XX PS Claim 1; Page 68; 80pp; English.
XX CC DNA sequences AAH62100 - AAH62688 represent segments of human genes which
XX CC contain single nucleotide polymorphisms (SNPs). A method is included in
XX CC the invention for analysing a nucleic acid sample, which consists of
XX CC determining the base occupying any one of the polymorphic sites given in
XX CC the SNP containing sequences. The nucleotide sequences can be used in the
XX CC diagnosis or monitoring of diseases, such as cancer, inflammation, heart
XX CC diseases, diseases of the cardiovascular system, and infection by
XX CC microorganisms. The oligonucleotides are also useful in the manufacture
XX CC of a medicament for the treatment or prophylaxis of the diseases, and as
XX CC a pharmaceutical. SNP containing oligonucleotides are useful in
XX CC applications such as phenotype correlation, forensics, paternity testing,
XX CC medicine and genetic analysis
XX SQ Revised record issued on 09-SEP-2004 : Correction to Feature Table Key
XX SQ Sequence 21 BP; 3 A; 7 C; 5 G; 6 T; 0 U; 0 Other;
QY Query Match 1.2%; Score 21; DB 1; Length 21;
Db Best Local Similarity 71.4%; Pred. No. 1.1e+02;
Matches 15; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 228 CAUCCUGCCUUGGACCAU 248
Db 1 CAUCCUGCCUUGGACCAU 21
RESULT 35
ABS98535
ID ABS98535 standard; DNA; 21 BP.
XX ABS98535;
XX AC
XX DT 23-DEC-2002 (first entry)
XX DE Human acetyl choline muscarinic receptor 3 polymorphic sequence #1.
XX KW Human; ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDRI;
XX KW cytochrome P450 A2; cytochrome P450 O2E; CYP45002E1; LTF;
XX KW adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;
XX KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
XX KW cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
XX KW epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
XX KW glutathione-S-transferase 12; GSTI2; histamine-N-methyl transferase;
XX KW HMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
XX KW NADPH quinone oxidoreductase 2; NQO2; sulfoltransferase; themlabille; STM;
XX KW UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
XX KW UGT2B7; UDP-glucuronosyl transferase; UGT2B15; uronase receptor; UPA;
XX KW multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
XX KW acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;

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XX DE Human CHR3 gene amplifying forward primer #3.
XX KM Human; cholinergic receptor muscarinic 3; CHR3; drug screening;
XX KM single nucleotide polymorphism; forensic application; gene therapy;
XX KM Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX KM sudden infant death syndrome; genotyping; haplotyping;
XX KM chromosome 1q41-q44; PCR primer; ss.
XX OS Homo sapiens.
XX PN WO200129176-A2.
XX PD 26-APR-2001.
XX PR 12-OCT-2000; 2000WO-US028247.
XX PR 15-OCT-1999; 99US-0159860P.
XX PA (GENA-) GENAISSANCE PHARM INC.
XX PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX DR WPI; 2001-300326/31.
XX PT Novel polymorphic variant of reference sequence for human cholinergic
XX PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
XX PT purposes.
XX PS Example 1; Page 29; 54pp; English.
XX CC The patent relates to polymorphic variants of human cholinergic receptor,
XX CC muscarinic 3 (CHR3) gene. The polymorphic variant comprises at least one
XX CC single nucleotide polymorphism selected from cytosine at P51, adenine at
XX CC P52 or P53, and cytosine at P54. The invention also relates to a method
XX CC for genotyping and haplotyping the CHR3 gene for identification of
XX CC variants. The polymorphic variant is useful for therapeutic purposes, for
XX CC studying the expression and biological function of CHR3, as well as for
XX CC developing drugs targeting the CHR3 protein. The variant is also useful
XX CC in diagnostics and forensic applications. The recombinant nonhuman
XX CC organism transfected with the polymorphic variant is useful for studying
XX CC expression of CHR3 isogenes in vivo, for in vivo screening and testing
XX CC of drugs targeted against CHR3 protein, and for testing the efficacy of
XX CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
XX CC syndrome, disorders associated with smooth muscle contractility and
XX CC sudden infant death syndrome. The CHR3 protein variant is useful in drug
XX CC screening assays and its antibodies are useful in immunoassays to detect
XX CC CHR3 protein variants in biological samples. The present sequence is a
XX CC PCR primer used for amplifying a fragment of human CHR3 gene for
XX CC detecting polymorphic sites
XX SQ Sequence 22 BP; 12 A; 5 C; 5 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 1.2%; Score 22; DB 1; Length 22;
XX Best Local Similarity 100.0%; Pred. No. 92;
XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 535 AAACGAACAACAAGAGACCG 556
DB 1 AAACGAACAACAAGAGACCG 22
XX
XX RESULT 32
XX AAD05886/c
XX ID AAD05886 standard; DNA; 22 BP.
XX AC AAD05886;
XX DE 31-JUL-2001 (first entry)
XX KM Human CHR3 gene amplifying reverse primer #3.
XX KM Human; cholinergic receptor muscarinic 3; CHR3; drug screening;

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XX KM single nucleotide polymorphism; forensic application; gene therapy;
XX KM Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX KM sudden infant death syndrome; genotyping; haplotyping;
XX KM chromosome 1q41-q44; PCR primer; ss.
XX OS Homo sapiens.
XX PN WO200129176-A2.
XX PD 26-APR-2001.
XX PR 12-OCT-2000; 2000WO-US028247.
XX PR 15-OCT-1999; 99US-0159860P.
XX PA (GENA-) GENAISSANCE PHARM INC.
XX PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX DR WPI; 2001-300326/31.
XX PT Novel polymorphic variant of reference sequence for human cholinergic
XX PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
XX PT purposes.
XX PS Example 1; Page 29; 54pp; English.
XX CC The patent relates to polymorphic variants of human cholinergic receptor,
XX CC muscarinic 3 (CHR3) gene. The polymorphic variant comprises at least one
XX CC single nucleotide polymorphism selected from cytosine at P51, adenine at
XX CC P52 or P53, and cytosine at P54. The invention also relates to a method
XX CC for genotyping and haplotyping the CHR3 gene for identification of
XX CC variants. The polymorphic variant is useful for therapeutic purposes, for
XX CC studying the expression and biological function of CHR3, as well as for
XX CC developing drugs targeting the CHR3 protein. The variant is also useful
XX CC in diagnostics and forensic applications. The recombinant nonhuman
XX CC organism transfected with the polymorphic variant is useful for studying
XX CC expression of CHR3 isogenes in vivo, for in vivo screening and testing
XX CC of drugs targeted against CHR3 protein, and for testing the efficacy of
XX CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
XX CC syndrome, disorders associated with smooth muscle contractility and
XX CC sudden infant death syndrome. The CHR3 protein variant is useful in drug
XX CC screening assays and its antibodies are useful in immunoassays to detect
XX CC CHR3 protein variants in biological samples. The present sequence is a
XX CC PCR primer used for amplifying a fragment of human CHR3 gene for
XX CC detecting polymorphic sites
XX SQ Sequence 22 BP; 1 A; 6 C; 6 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 1.2%; Score 22; DB 1; Length 22;
XX Best Local Similarity 95.5%; Pred. No. 92;
XX Matches 21; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 973 GAGCAGAGGACCAAGACCA 994
DB 22 GAGCAGATGACCAAGACCA 1
XX
XX RESULT 33
XX AAD05883
XX ID AAD05883 standard; DNA; 22 BP.
XX AC AAD05883;
XX DE 31-JUL-2001 (first entry)
XX KM Human CHR3 gene amplifying forward primer #2.
XX KM Human; cholinergic receptor muscarinic 3; CHR3; drug screening;
XX KM single nucleotide polymorphism; forensic application; gene therapy;
XX KM Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX KM sudden infant death syndrome; genotyping; haplotyping;
XX KM chromosome 1q41-q44; PCR primer; ss.

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AEA02316
ID AEA02316 standard; RNA; 23 BP.
AC
XX
AC AEA02316;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 200.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW micurition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richard I. Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 200; 184bp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 23 BP; 4 A; 8 C; 3 G; 0 T; 8 U; 0 Other;
Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX
AC AAD05882;
XX
DT 31-JUL-2001 (first entry)
XX
DE Human CHRM3 gene amplifying reverse primer #1.
XX
KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
KW single nucleotide polymorphism; forensic application; gene therapy;
KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
KW sudden infant death syndrome; genotyping; haplotyping;
KW chromosome 1q41-q44; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN WO200129176-A2.
XX
PD 26-APR-2001.
XX
PF 12-OCT-2000; 2000WO-US028247.
XX
PR 15-OCT-1999; 99US-0159860P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX
DR WPI; 2001-300326/31.
XX
PT Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
PT purposes.
XX
PS Example 1; Page 29; 54bp; English.
XX
CC The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is a
CC PCR primer used for amplifying a fragment of human CHRM3 gene for
XX detecting polymorphic sites
XX
SQ Sequence 22 BP; 6 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
Query Match 1.2%; Score 22; DB 1; Length 22;
Best Local Similarity 72.7%; Pred. No. 92;
Matches 16; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
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RESULT 31
AAD05885
ID AAD05885 standard; DNA; 22 BP.
AC
XX
AC AAD05885;
XX
DT 31-JUL-2001 (first entry)
```


Db 1 AGCAGUACGACGAGACAGUCG 23

RESULT 27

AEA02322
ID AEA02322 standard; RNA; 23 BP.

AC AEA02322;

DT 28-JUL-2005 (first entry)

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 206.

KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucritium disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.

PN WO2005045040-A2.

PD 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727780.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004WO-US013456.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

PR 17-AUG-2004; 2004US-00919866.

(SIRN-) SIRNA THERAPEUTICS INC.

Richard I, Macswiggen J;

WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

Claim 33; SEQ ID NO 206; 184bp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

SQ Sequence 23 BP; 7 A; 6 C; 8 G; 0 T; 2 U; 0 Other;

Query Match 1.3%; Score 23; DB 1; Length 23;

Best Local Similarity 100.0%; Pred. No. 76;

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1713 GCAGUACGACGACGAGUCG 1735

DB 1 GCAGUACGACGACGAGUCG 23

RESULT 28

AEA02320
ID AEA02320 standard; RNA; 23 BP.

AC AEA02320;

DT 28-JUL-2005 (first entry)

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 204.

KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
KW mucritium disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.

OS Synthetic.

PN WO2005045040-A2.

PD 19-MAY-2005.

PF 20-AUG-2004; 2004WO-US027367.

PR 23-OCT-2003; 2003US-00693059.

PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727780.

PR 14-JAN-2004; 2004US-00757803.

PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.

PR 16-APR-2004; 2004US-00826966.

PR 30-APR-2004; 2004WO-US013456.

PR 24-MAY-2004; 2004WO-US016390.

PR 17-AUG-2004; 2004US-00919866.

(SIRN-) SIRNA THERAPEUTICS INC.

Richard I, Macswiggen J;

WPI; 2005-356237/36.

PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.

Claim 33; SEQ ID NO 204; 184bp; English.

CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.

SQ Sequence 23 BP; 8 A; 6 C; 7 G; 0 T; 2 U; 0 Other;

Query Match 1.3%; Score 23; DB 1; Length 23;

Best Local Similarity 100.0%; Pred. No. 76;

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1710 GCAGUACGACGACGAGUCG 1732

DB 1 GCAGUACGACGACGAGUCG 23

RESULT 29

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 15 UACAGUACACUCCGCUUUGU 37
 |||||
Db 1 UACAGUACACUCCGCUUUGU 23

RESULT 25

AEA02319
ID AEA02319 standard; RNA; 23 BP.

AC AEA02319;
XX

DT 28-JUL-2005 (first entry)
XX

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 203.

KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX

KW Neuroprotective; Nootropic; Uropathic;
XX

KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX

KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX

KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX

KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX

OS Synthetic.
XX

PN WO2005045040-A2.
XX

PD 19-MAY-2005.
XX

PF 20-AUG-2004; 2004WO-US027367.
XX

PR 23-OCT-2003; 2003US-00693059.
XX

PR 24-NOV-2003; 2003US-00720448.
XX

PR 03-DEC-2003; 2003US-00727780.
XX

PR 14-JAN-2004; 2004US-00757803.
XX

PR 10-FEB-2004; 2004US-0543480P.
XX

PR 13-FEB-2004; 2004US-00780447.
XX

PR 11-MAR-2004; 2004US-00798090.
XX

PR 16-APR-2004; 2004US-00826966.
XX

PR 30-APR-2004; 2004WO-US013456.
XX

PR 24-MAY-2004; 2004WO-US016390.
XX

PR 17-AUG-2004; 2004US-00919866.
XX

PA (SIRN-) SIRNA THERAPEUTICS INC.
XX

PI Richards I, Macswigen J;
XX

DR WPI; 2005-356237/36.
XX

PT New short interfering nucleic acid molecule that directs cleavage of a
XX

PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX

PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX

PT disease.
XX

PS Claim 33; SEQ ID NO 203; 184bp; English.
XX

CC The invention relates to a chemically synthesized double stranded short
XX

CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX

CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX

CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX

CC useful for treating or preventing respiratory and pulmonary diseases,
XX

CC disorders, and/or conditions, including chronic obstructive pulmonary
XX

CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX

CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX

CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SO Sequence 23 BP; 9 A; 6 C; 7 G; 0 T; 1 U; 0 Other;
XX

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 973 GAGGAGUGGACCAAGCACAG 995
 |||||
Db 1 GAGGAGUGGACCAAGCACAG 23

RESULT 26

AEA02321
ID AEA02321 standard; RNA; 23 BP.

AC AEA02321;
XX

DT 28-JUL-2005 (first entry)
XX

DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 205.

KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX

KW Neuroprotective; Nootropic; Uropathic;
XX

KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX

KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX

KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX

KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX

OS Synthetic.
XX

PN WO2005045040-A2.
XX

PD 19-MAY-2005.
XX

PF 20-AUG-2004; 2004WO-US027367.
XX

PR 23-OCT-2003; 2003US-00693059.
XX

PR 24-NOV-2003; 2003US-00720448.
XX

PR 03-DEC-2003; 2003US-00727780.
XX

PR 14-JAN-2004; 2004US-00757803.
XX

PR 10-FEB-2004; 2004US-0543480P.
XX

PR 13-FEB-2004; 2004US-00780447.
XX

PR 11-MAR-2004; 2004US-00798090.
XX

PR 16-APR-2004; 2004US-00826966.
XX

PR 30-APR-2004; 2004WO-US013456.
XX

PR 24-MAY-2004; 2004WO-US016390.
XX

PR 17-AUG-2004; 2004US-00919866.
XX

PA (SIRN-) SIRNA THERAPEUTICS INC.
XX

PI Richards I, Macswigen J;
XX

DR WPI; 2005-356237/36.
XX

PT New short interfering nucleic acid molecule that directs cleavage of a
XX

PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
XX

PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX

PT disease.
XX

PS Claim 33; SEQ ID NO 205; 184bp; English.
XX

CC The invention relates to a chemically synthesized double stranded short
XX

CC interfering nucleic acid (siNA) molecule that directs cleavage of a
XX

CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
XX

CC (RNAi). The siNA molecule, compounds, compositions, and methods are
XX

CC useful for treating or preventing respiratory and pulmonary diseases,
XX

CC disorders, and/or conditions, including chronic obstructive pulmonary
XX

CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
XX

CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
XX

CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX

SO Sequence 23 BP; 8 A; 6 C; 7 G; 0 T; 2 U; 0 Other;
XX

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

SQ Sequence 23 BP; 2 A; 8 C; 5 G; 0 T; 8 U; 0 Other;
 Query Match 1.3%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 76;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 315 CUUCCUUAAGCCUGCCUG 337
 |||||
 Db 1 CUUCCUUAAGCCUGCCUG 23

RESULT 23
 AEA02317
 ID AEA02317 standard; RNA; 23 BP.
 AC AEA02317;
 XX
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 201.
 XX
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KM Neuroprotective; Nootropic; Uropathic;
 KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KM mucritition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KM siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 XX WO2005045040-A2.
 PN
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 XX
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00826966.
 PR 16-APR-2004; 2004WO-US013456.
 PR 30-APR-2004; 2004WO-US016390.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 PI Richards I, Macswiggen J;
 FI
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 PT
 PS Claim 33; SEQ ID NO 201; 184bp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 23 BP; 3 A; 8 C; 4 G; 0 T; 8 U; 0 Other;

Query Match 1.3%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 76;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 313 UACUCCUUAAGCCUGCCUG 335
 |||||
 Db 1 UACUCCUUAAGCCUGCCUG 23

RESULT 24
 AEA02315
 ID AEA02315 standard; RNA; 23 BP.
 XX
 XX AEA02315;
 AC
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 199.
 XX
 XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KM Neuroprotective; Nootropic; Uropathic;
 KM Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KM mucritition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KM siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 XX WO2005045040-A2.
 PN
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 XX
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-0078090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 PI Richards I, Macswiggen J;
 PI
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 PT
 PS Claim 33; SEQ ID NO 199; 184bp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 23 BP; 6 A; 7 C; 3 G; 0 T; 7 U; 0 Other;
 Query Match 1.3%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 76;

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1713 GCAGUACGACGACGACGACG 1735

Db 1 GCAGUACGACGACGACGACG 23

RESULT 21

ADM27907

ID ADM27907 standard; RNA; 23 BP.

AC ADM27907;

DT 07-APR-2005 (first entry)

XX Cholinegenic receptor muscarinic 3 gene targeted siRNA #204.

XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.;
KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinegenic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
KM incontinence; ss.

XX Synthetic.

XX US2005014172-A1.

XX 20-JAN-2005.

XX 11-MAR-2004; 2004US-00798090.

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002US-0363124P.

XX 06-JUN-2002; 2002US-0363124P.

XX 29-AUG-2002; 2002US-0406784P.

XX 05-SEP-2002; 2002US-0408378P.

XX 09-SEP-2002; 2002US-0408378P.

XX 15-JAN-2003; 2003US-0440129P.

XX 20-FEB-2003; 2003US-0440129P.

XX 30-APR-2003; 2003US-0440129P.

XX 23-MAY-2003; 2003US-0440129P.

XX 23-OCT-2003; 2003US-0440129P.

XX 24-NOV-2003; 2003US-0440129P.

XX 14-JAN-2004; 2004US-00757803.

XX (RICH) RICHARDS I.

XX (MCSW) MCSWIGEN J.

XX Richards I, Mcswigen J;

XX WPI; 2005-090672/10.

XX Novel chemically synthesized double stranded short interfering nucleic

XX acid molecule that directs cleavage of cholinegenic receptor muscarinic 3

XX RNA through RNA interference, useful for treating asthma.

XX Disclosure; SEQ ID NO 204; 84pp; English.

CC sequence represents an example of a siRNA molecule of the invention.

XX Sequence 23 BP; 8 A; 6 C; 7 G; 0 T; 2 U; 0 Other;

XX Query Match 1.3%; Score 23; DB 1; Length 23;

XX Best Local Similarity 100.0%; Pred. No. 76;

XX Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1710 GCAGUACGACGACGACGACG 1732

Db 1 GCAGUACGACGACGACGACG 23

RESULT 22

AEA02318

ID AEA02318 standard; RNA; 23 BP.

AC AEA02318;

DT 28-JUL-2005 (first entry)

XX Cholinegenic receptor muscarinic 3 siRNA SEQ ID NO 202.

XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KM Neuroprotective; Nootropic; Uropathic;
KM chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KM sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KM mutation disorder; cholinegenic receptor muscarinic 3; CHRM2; ss;
KM siRNA; RNA interference; gene silencing; short interfering RNA.

XX Synthetic.

XX WO2005045040-A2.

XX 19-MAY-2005.

XX 20-AUG-2004; 2004US-00727367.

XX 23-OCT-2003; 2003US-00693059.

XX 24-NOV-2003; 2003US-00720448.

XX 03-DEC-2003; 2003US-00727803.

XX 14-JAN-2004; 2004US-00757803.

XX 10-FEB-2004; 2004US-0543480P.

XX 13-FEB-2004; 2004US-00780447.

XX 11-MAR-2004; 2004US-00798090.

XX 16-APR-2004; 2004US-00826966.

XX 30-APR-2004; 2004US-00826966.

XX 24-MAY-2004; 2004US-00918666.

XX 17-AUG-2004; 2004US-00918666.

XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Richards I, Macswigen J;

XX WPI; 2005-356237/36.

XX New short interfering nucleic acid molecule that directs cleavage of a

XX cholinegenic receptor muscarinic 3 RNA, useful for treating or preventing

XX respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary

XX disease.

XX Claim 33; SEQ ID NO 202; 184pp; English.

CC The invention relates to a chemically synthesized double stranded short

XX interfering nucleic acid (siNA) molecule that directs cleavage of a

XX cholinegenic receptor muscarinic 3 (CHRM3) RNA via RNA interference

XX (RNAi). The siNA molecule, compounds, compositions, and methods are

XX useful for treating or preventing respiratory and pulmonary diseases,

XX disorders, and/or conditions, including chronic obstructive pulmonary

XX disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,

XX cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The

XX present sequence represents a cholinegenic receptor muscarinic 3 siRNA.

XX 07-APR-2005 (first entry)
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #203.
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteroplacental; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
XX 20-JAN-2005.
XX 11-MAR-2004; 2004US-00798090.
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX Richards I, Mcswiggen J;
XX MPI; 2005-090672/10.
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX Disclosure; SEQ ID NO 203; 84bp; English.
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nucleases. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX Sequence 23 BP; 9 A; 6 C; 7 G; 0 T; 1 U; 0 Other;
SQ Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Caps 0;
QY 973 GAGCAGAGGACCAAGCCACAG 995
DB 1 GAGCAGAGGACCAAGCCACAG 23

RESULT 20
ADW27909.1
ID ADW27909 standard; RNA; 23 BP.
XX
XX ADW27909;
XX 07-APR-2005 (first entry)
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #206.
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX neurotropic; uteroplacental; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX Synthetic.
XX US2005014172-A1.
XX 20-JAN-2005.
XX 11-MAR-2004; 2004US-00798090.
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003US-00427160.
XX 30-APR-2003; 2003US-00444853.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX Richards I, Mcswiggen J;
XX MPI; 2005-090672/10.
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX Disclosure; SEQ ID NO 206; 84bp; English.
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nucleases. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX Sequence 23 BP; 7 A; 6 C; 8 G; 0 T; 2 U; 0 Other;
SQ Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 76;

XX Synthetic.
OS
XX US2005014172-A1.
PN
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX 11-MAR-2002; 2002US-0363124P.
PR
XX 20-MAY-2002; 2002WO-US015876.
PR
XX 06-JUN-2002; 2002US-0386782P.
PR
XX 29-AUG-2002; 2002US-0406784P.
PR
XX 05-SEP-2002; 2002US-0408378P.
PR
XX 09-SEP-2002; 2002US-0409293P.
PR
XX 15-JAN-2003; 2003US-0440129P.
PR
XX 20-FEB-2003; 2003WO-US005028.
PR
XX 20-FEB-2003; 2003WO-US005346.
PR
XX 30-APR-2003; 2003US-00427160.
PR
XX 23-MAY-2003; 2003US-00444853.
PR
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA
XX (MCSW/) MCSWIGGEN J.
PI
XX Richards I, Mcswiggen J;
PI
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PT
XX
XX Disclosure; SEQ ID NO 200; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 4 A; 8 C; 3 G; 0 T; 8 U; 0 Other;
SQ
Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 19 AGUACAACCCUCCUUTUCC 41
DB 1 AGUACAACCCUCCUUTUCC 23
RESULT 18
ADM27904
ID ADM27904 standard; RNA; 23 BP.
XX
XX ADM27904;
AC
XX
XX 07-APR-2005 (first entry)
DT
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #201.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;

KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KM incontinence; ss.
XX
XX Synthetic.
OS
XX
XX US2005014172-A1.
PN
XX
XX 20-JAN-2005.
PD
XX
XX 11-MAR-2004; 2004US-00798090.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX 11-MAR-2002; 2002US-0363124P.
PR
XX 20-MAY-2002; 2002WO-US015876.
PR
XX 06-JUN-2002; 2002US-0386782P.
PR
XX 29-AUG-2002; 2002US-0406784P.
PR
XX 05-SEP-2002; 2002US-0408378P.
PR
XX 09-SEP-2002; 2002US-0409293P.
PR
XX 15-JAN-2003; 2003US-0440129P.
PR
XX 20-FEB-2003; 2003WO-US005028.
PR
XX 20-FEB-2003; 2003WO-US005346.
PR
XX 30-APR-2003; 2003US-00427160.
PR
XX 23-MAY-2003; 2003US-00444853.
PR
XX 23-OCT-2003; 2003US-00693059.
PR
XX 24-NOV-2003; 2003US-00720448.
PR
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA
XX (MCSW/) MCSWIGGEN J.
PI
XX Richards I, Mcswiggen J;
PI
XX WPI; 2005-090672/10.
DR
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
PT
XX
XX Disclosure; SEQ ID NO 201; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 3 A; 8 C; 4 G; 0 T; 8 U; 0 Other;
SQ
Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 313 UACUUCUCCUUAAGCCGCGCUG 335
DB 1 UACUUCUCCUUAAGCCGCGCUG 23
RESULT 19
ADM27906
ID ADM27906 standard; RNA; 23 BP.
XX
XX ADM27906;
AC

PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003US-05005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR MPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 199; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 23 BP; 6 A; 7 C; 3 G; 0 T; 7 U; 0 Other;
 Query Match 1.3%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 76;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 15 UAAAGUACACCCGCCUUGU 37
 DB 1 UAAAGUACACCCGCCUUGU 23
 RESULT 16
 ADW27905
 ID ADW27905 standard; RNA; 23 BP.
 XX
 AC ADW27905;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #202.
 XX
 KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.
 XX
 OS Synthetic.
 XX
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.

XX
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGGEN J.
 PI Richards I, Mcswiggen J;
 XX
 DR MPI; 2005-090672/10.
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 PS Disclosure; SEQ ID NO 202; 84bp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 23 BP; 2 A; 8 C; 5 G; 0 T; 8 U; 0 Other;
 Query Match 1.3%; Score 23; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 76;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 315 CUUCCUUAAGCCUGCCUG 337
 DB 1 CUUCCUUAAGCCUGCCUG 23
 RESULT 17
 ADW27903
 ID ADW27903 standard; RNA; 23 BP.
 XX
 AC ADW27903;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #200.
 XX
 KM gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.

XX 12-OCT-2000; 2000WO-US028247.
PF 15-OCT-1999; 99US-0159860P.
XX (GENA-) GENAISSANCE PHARM INC.
XX Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX WPI; 2001-300326/31.
XX
XX Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
PS purposes.
XX Example 1; Page 29; 54pp; English.
XX The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is a
CC PCR primer used for amplifying a fragment of human CHRM3 gene for
SQ detecting polymorphic sites

Sequence 24 BP; 7 A; 6 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 1.4%; Score 24; DB 1; Length 24;
Best Local Similarity 79.2%; Pred. No. 63;
Matches 19; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1304 UGACACAGCUGAAGCUCGACG 1327
Db 1 TGGACACACTTACGACTCTGACG 24

RESULT 14
AAD05884/C
ID AAD05884 standard; DNA; 23 BP.
XX AAD05884;
XX
XX 31-JUL-2001 (first entry)
XX
XX Human CHRM3 gene amplifying reverse primer #2.
DE Human CHRM3 gene amplifying reverse primer #2.
XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
XX single nucleotide polymorphism; forensic application; gene therapy;
XX Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX sudden infant death syndrome; genotyping; haplotyping;
XX chromosome 1q41-q44; PCR primer; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200129176-A2.
XX
XX 26-APR-2001.
XX
XX 12-OCT-2000; 2000WO-US028247.
XX
XX 15-OCT-1999; 99US-0159860P.
XX

XX (GENA-) GENAISSANCE PHARM INC.
PA Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX WPI; 2001-300326/31.
XX
XX Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
PS purposes.
XX Example 1; Page 29; 54pp; English.
XX The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is a
CC PCR primer used for amplifying a fragment of human CHRM3 gene for
SQ detecting polymorphic sites

Sequence 23 BP; 5 A; 7 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 78.3%; Pred. No. 76;
Matches 18; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 631 GUUGAAGAAGACUGGCCUCC 653
Db 23 GTTGAAGAAGAACTGTGCTCC 1

RESULT 15
ADW27902
ID ADW27902 standard; RNA; 23 BP.
XX ADW27902;
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #199.
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #199.
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uteropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
XX incontinence; ss.
XX
XX Synthetic.
OS
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX
XX 20-MAY-2002; 2002WO-US015876.
XX


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XX  Human; resequence; genotype; disease; forensic; paternity testing;
KM single nucleotide polymorphism; SNP; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX variation 16
XX /tag= a
XX /standard_name= "single nucleotide polymorphism"
XX
XX WO200166800-A2.
XX
XX 13-SEP-2001.
XX
XX 07-MAR-2001; 2001WO-US007268.
XX
XX 07-MAR-2000; 2000US-0187510P.
XX
XX 22-MAY-2000; 2000US-0206129P.
XX
XX (WHD ) WHITEHEAD INST BIOMEDICAL RES.
XX
XX Cargill M, Ireland JS, Lander ES;
XX
XX WPI; 2001-522952/57.
XX
XX Nucleic acid molecules from the human genome which include polymorphic
XX sites, useful in methods for predicting the presence, absence or severity
XX of a particular phenotype or disorder (e.g. diabetes) associated with a
XX particular genotype.
XX
XX Claim 1; Page 98; 145pp; English.
XX
XX The invention relates to the identification of nucleic acid molecules
XX (AA129513-AA13131) from the human genome which include polymorphic sites
XX which can predispose individuals to disease. Various genes from a number
XX of individuals were resequenced and single nucleotide polymorphisms
XX (SNPs) in these genes discovered. The method is useful for predicting the
XX presence, absence or severity of a particular phenotype or disorder (e.g.
XX diabetes) associated with a particular genotype. The nucleic acids
XX containing the polymorphic sites may be useful in forensics and paternity
XX testing
XX
XX Revised record issued on 04-NOV-2004 : Correction to Feature Table Key
XX
XX Sequence 31 BP; 5 A; 12 C; 5 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 1.4%; Score 25.2; DB 1; Length 31;
XX Best Local Similarity 66.7%; Pred. No. 79;
XX Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 687 CACCAUACUUVUGGACAGCCGACUCCGCTGC 716
XX
XX DB 1 CACCATCACTTTTGCGCATGCGCATGCTGC 30
XX
XX RESULT 12
XX AAD05888/c
XX ID AAD05888 standard; DNA; 25 BP.
XX
XX AAD05888;
XX
XX 31-JUL-2001 (first entry)
XX
XX Human CHRM3 gene amplifying reverse primer #4.
XX
XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
XX single nucleotide polymorphism; forensic application; gene therapy;
XX Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX sudden infant death syndrome; genotyping; haployping;
XX chromosome 1q41-q44; PCR primer; ss.
XX
XX Homo sapiens.
XX

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XX  WO200129176-A2.
XX
XX 26-APR-2001.
XX
XX 12-OCT-2000; 2000WO-US0282247.
XX
XX 15-OCT-1999; 99US-0159860P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX
XX WPI; 2001-300326/31.
XX
XX Novel polymorphic variant of reference sequence for human cholinergic
XX receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
XX purposes.
XX
XX Example 1; Page 29; 54pp; English.
XX
XX The patent relates to polymorphic variants of human cholinergic receptor,
XX muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
XX single nucleotide polymorphism selected from cytosine at PS1, adenine at
XX PS2 or PS3, and cytosine at PS4. The invention also relates to a method
XX for genotyping and haployping the CHRM3 gene for identification of
XX variants. The polymorphic variant is useful for therapeutic purposes, for
XX studying the expression and biological function of CHRM3, as well as for
XX developing drugs targeting the CHRM3 protein. The variant is also useful
XX in diagnostics and forensic applications. The recombinant nonhuman
XX organism transfected with the polymorphic variant is useful for studying
XX expression of CHRM3 isogenes in vivo, for in vivo screening and testing
XX of drugs targeted against CHRM3 protein, and for testing the efficacy of
XX therapeutic agents and compounds for Alzheimer's disease, Sjogren's
XX syndrome, disorders associated with smooth muscle contractility and
XX sudden infant death syndrome. The CHRM3 protein variant is useful in drug
XX screening assays and its antibodies are useful in immunoassays to detect
XX CHRM3 protein variants in biological samples. The present sequence is a
XX PCR primer used for amplifying a fragment of human CHRM3 gene for
XX detecting polymorphic sites
XX
XX Sequence 25 BP; 3 A; 7 C; 6 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 1.4%; Score 25; DB 1; Length 25;
XX Best Local Similarity 88.0%; Pred. No. 52;
XX Matches 22; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1410 GACCGAGACUCAGAUCAUACCGG 1434
XX
XX DB 25 GACCGAGACTGAGATCACTAACCGG 1
XX
XX RESULT 13
XX AAD05889
XX ID AAD05889 standard; DNA; 24 BP.
XX
XX AAD05889;
XX
XX 31-JUL-2001 (first entry)
XX
XX Human CHRM3 gene amplifying forward primer #5.
XX
XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
XX single nucleotide polymorphism; forensic application; gene therapy;
XX Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX sudden infant death syndrome; genotyping; haployping;
XX chromosome 1q41-q44; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO200129176-A2.
XX
XX 26-APR-2001.
XX

```

QY 1495 GCCUUCAGUACGACCCCAUAC 1524
 DB 1 GCCTTCATCATCAGTGACCCCTACACC 30

RESULT 9
 AA294358
 ID AA294358 standard; DNA; 30 BP.
 AC AA294358;
 AC AA294358;
 DT 03-JUL-2000 (first entry)
 DE Drosophila muscarinic acetylcholine receptor PCR primer.
 XX
 XX G protein coupled receptor; GPCR; insect; MAR;
 KM muscarinic acetylcholine receptor; drug screening; PCR primer; ss.
 XX Drosophila melanogaster.
 OS
 XX WO200012705-A2.
 PN
 XX 09-MAR-2000.
 PD
 XX 01-SEP-1999; 99MO-US020013.
 PF
 XX 01-SEP-1998; 98US-0098704P.
 PR
 PA (PAUS/) PAUSCH M H.
 PA (WESS/) WESS J.
 XX
 PI Pausch MH, Wess J;
 XX
 DR WPI; 2000-246754/21.
 XX
 PT New G protein-coupled receptors with a mutation in an intracellular
 PT domain; useful for high throughput screening assays for e.g. drugs,
 PT insecticides or nematocides.
 XX
 PS Example 2; Page 12; 37pp; English.
 XX
 CC This is the DNA sequence of a primer that was used in the PCR
 CC amplification of a DNA fragment consisting of the C-terminal coding
 CC portion of Drosophila melanogaster muscarinic acetylcholine receptor
 CC (MAR) from a Pml site in the 6th transmembrane domain. MAR is a G
 CC protein coupled receptor (GPCR). The PCR product was ligated into
 CC expression plasmid p426GPD. Yeast cells containing an intracellular loop
 CC 3 (IC3) deleted Drosophila MAR produced an agonist-dependent growth
 CC response. The invention provides modified GPCRs having a mutation in IC3
 CC that results in an improved functional response in cell-based assays. The
 CC modification promotes growth stimulation by a GPCR agonist, especially by
 CC improving coupling between the receptor and a heterotrimeric G protein.
 CC Polynucleotides encoding the mutated GPCR, chimeric GPCR, vectors and
 CC host cells are also claimed. The modified GPCRs can be used in improved
 CC high throughput screening assays (especially in yeast cells) for
 CC therapeutic drugs, insecticides, nematocides etc. Agonists of G protein-
 CC coupled insect MARs possess substantial insecticide and miticide activity
 CC
 XX SQ Sequence 30 BP; 8 A; 10 C; 4 G; 8 T; 0 U; 0 Other;

Query Match 1.4%; Score 25.2; DB 1; Length 30;
 Best Local Similarity 66.7%; Pred. No. 73;
 Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1498 UUCAGUACGACCCCAUAC 1527
 DB 1 TTCATCATCAGTGACCCCTACACC 30

RESULT 10
 AA130840
 ID AA130840 standard; DNA; 31 BP.

XX
 AC AA130840;
 AC
 DT 04-NOV-2004 (revised)
 DT 18-OCT-2001 (first entry)
 XX
 DE Human single nucleotide polymorphism (SNP) CHRM4 2.
 XX
 KM Human; resequence; genotype; disease; forensic; paternity testing;
 KM single nucleotide polymorphism; SNP; ss.
 XX
 OS Homo sapiens.
 OS
 FT Key location/Qualifiers
 FT variation 16
 FT /*tag= a
 XX /standard_name= "single nucleotide polymorphism"
 XX
 PN WO200166800-A2.
 PD
 XX 13-SEP-2001.
 XX
 XX 07-MAR-2001; 2001MO-US007268.
 PF
 XX 07-MAR-2000; 2000US-0187510P.
 PR
 XX 22-MAY-2000; 2000US-0206129P.
 XX
 PA (WHEB) WHITEHEAD INST BIOMEDICAL RES.
 XX
 PI Cargill M, Ireland JS, Lander ES;
 XX
 DR WPI; 2001-522952/57.
 XX
 PT Nucleic acid molecules from the human genome which include polymorphic
 PT sites, useful in methods for predicting the presence, absence or severity
 PT of a particular phenotype or disorder (e.g. diabetes) associated with a
 PT particular genotype.
 XX
 PS Claim 1; Page 11; 145pp; English.
 XX
 CC The invention relates to the identification of nucleic acid molecules
 CC (AA129513-AA131314) from the human genome which include polymorphic sites
 CC which can predispose individuals to disease. Various genes from a number
 CC of individuals were resequenced and single nucleotide polymorphisms
 CC (SNPs) in these genes discovered. The method is useful for predicting the
 CC presence, absence or severity of a particular phenotype or disorder (e.g.
 CC diabetes) associated with a particular genotype. The nucleic acids
 CC containing the polymorphic sites may be useful in forensics and paternity
 CC testing
 CC
 CC Revised record issued on 04-NOV-2004 : Correction to Feature Table Key
 CC
 XX SQ Sequence 31 BP; 7 A; 12 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 1.4%; Score 25.2; DB 1; Length 31;
 Best Local Similarity 66.7%; Pred. No. 79;
 Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1587 CUACUGGCGUGGCUACAGACGACCGU 1616
 DB 1 CTACTGGCTCTGCTACGACGACCAT 30

RESULT 11
 AA130657
 ID AA130657 standard; DNA; 31 BP.
 AC AA130657;
 AC
 DT 04-NOV-2004 (revised)
 DT 18-OCT-2001 (first entry)
 XX
 DE Human single nucleotide polymorphism (SNP) 166.

XX New G protein-coupled receptors with a mutation in an intracellular
PT domain, useful for high throughput screening assays for e.g. drugs,
PT insecticides or nematocides.
XX
PS Example 1; Page 8; 37pp; English.
XX
CC This primer sequence, which includes a 3' PmlI site, was used in the PCR
CC amplification of DNA encoding intracellular loops (IC3) of rat M3
CC muscarinic acetylcholine receptor (MAR). MAR is a G protein coupled
CC receptor (GPCR). Comparison of the expression of wild-type MAR and IC3
CC deleted MAR showed that deletion of a portion of the IC3 produced a
CC functional GPCR in yeast. Modification of internal domains was therefore
CC suggested to be a generalizable method for improving the function of
CC heterologous GPCRs expressed in yeast. The invention provides modified
CC GPCRs having a mutation in IC3 that results in an improved functional
CC response in cell-based assays. The modification promotes growth
CC stimulation by a GPCR agonist, especially by improving coupling between
CC the receptor and a heterotrimeric G protein. Polynucleotides encoding the
CC mutated GPCR, chimeric GPCR, vectors and host cells are also claimed. The
CC modified GPCRs can be used in improved high throughput screening assays
CC (especially in yeast cells) for therapeutic drugs, insecticides,
CC nematocides etc
XX
SQ Sequence 30 BP; 6 A; 4 C; 13 G; 7 T; 0 U; 0 Other;
XX
Query Match 1.5%; Score 26.8; DB 1; Length 30;
Best Local Similarity 73.3%; Pred. No. 46;
Matches 22; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
XX
OY 1495 GCCUUCAUCAUCACUGAGCCCCCAUACAAC 1524
Db 30 GCCTTCATCATCTCAGTGGACCCCTTACAAC 1
XX
RESULT 5
AB197627
ID AB197627 standard; DNA; 32 BP.
XX
AC AB197627;
XX
DT 18-FEB-2002 (first entry)
XX
DE Endogenous human GPCR 5' primer SEQ ID NO: 79.
XX
KW Human; G protein-coupled receptor; GPCR; non-endogenous; mutant;
KW constitutively activated GPCR; agonist; disease; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN WO20017172-A2.
XX
PD 18-OCT-2001.
XX
PF 05-APR-2001; 2001WO-US011098.
XX
PR 07-APR-2000; 2000US-0195747P.
XX
PA (AREN-) ARENA PHARM INC.
XX
PI Lehmann-Bruinsma K, Liaw CW, Lin I;
XX
DR WPI; 2001-648759/74.
XX
PT Identifying agonists of G protein-coupled receptors (GPCRs) for use in
PT disease treatment, comprises contacting candidate compounds with versions
PT of GPCRs.
XX
PS Example 1; Page 31; 394pp; English.
XX
CC The invention relates to G protein-coupled receptors (GPCRs) for which
CC the endogenous ligand has been identified. Non-endogenous constitutively
CC activated versions of known GPCRs are used in the invention for the

CC direct identification of candidate compounds as receptor agonists,
CC inverse agonists or partial agonists. Such agonists are useful as
CC therapeutic agents for diseases or disorders associated with GPCRs. The
CC present sequence is a primer used to prepare an endogenous version of a
CC known GPCR in an example illustrating the invention
XX
SQ Sequence 32 BP; 13 A; 10 C; 3 G; 6 T; 0 U; 0 Other;
XX
Query Match 1.5%; Score 26; DB 1; Length 32;
Best Local Similarity 80.8%; Pred. No. 67;
Matches 21; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
XX
OY 1 AUGACCUCGCAUAUACAGUACAAC 26
Db 7 ATGACCTTGCAATATACGTACAC 32
XX
RESULT 6
AA294307
ID AA294307 standard; DNA; 30 BP.
XX
AC AA294307;
XX
DT 03-JUL-2000 (first entry)
XX
DE Drosophila muscarinic acetylcholine receptor PCR primer.
XX
KW G protein coupled receptor; muscarinic acetylcholine receptor; MAR;
KW insect; insecticide; miticide; screening; PCR primer; ss.
XX
OS Drosophila melanogaster.
XX
PN WO200012704-A2.
XX
PD 09-MAR-2000.
XX
PF 01-SEP-1999; 99WO-US020011.
XX
PR 01-SEP-1998; 98US-0098704P.
XX
PA (PAUS/) PAUSCH M H.
PA (LAIM/) LAI M.
PA (SILV/) SILVERMAN S.
PA (BIRS/) BIRSAN C.
PA (BAUM/) BAUMBACH W.
PA (TSEN/) TSENG E.
PA (KAJK/) KAJKOWSKI E M.
PA (OZEN/) OZENBERGER B A.
XX
PI Pausch MH, Lai M, Silverman S, Birsan C, Baumbach W, Tseng E;
PI Kajokowski EM, Ozenberger BA;
XX
DR WPI; 2000-246753/21.
XX
PT Novel host cells comprising heterologous G protein-coupled receptor
PT modified to be constitutively active, useful for high throughput
PT screening assays for e.g. drugs, insecticides or nematocides.
XX
PS Example 2; Page 23; 75pp; English.
XX
CC This is the DNA sequence of a primer that was used in the PCR
CC amplification of a DNA fragment consisting of the C-terminal coding
CC portion of Drosophila melanogaster muscarinic acetylcholine receptor
CC (MAR) starting from a PmlI site in the 6th transmembrane domain. MAR is a
CC G protein coupled receptor (GPCR). The PCR product was ligated into
CC expression plasmid p426GPD. Yeast cells containing an intracellular loop
CC 3 (IC3) deleted Drosophila MAR produced an agonist-dependent growth
CC response. The invention relates to mutant GPCRs with constitutively
CC activating mutations that permit the detection of the receptors'
CC functional activity in the absence of activating ligands, host cells that
CC contain mutations that promote the functional activity of the GPCRs, host
CC cells expressing such receptors, and vectors useful for making such
CC cells. The host cells are useful in high throughput screening assays for

837	13.4	0.8	15	1	ABBS0501	Human myosin heavy
C 838	13.4	0.8	15	1	ABBS0501	DNA encoding dendi
C 839	13.4	0.8	16	1	AA579943	PCR primer for G.
C 840	13.4	0.8	16	1	ADU85273	Human MetAP-2 G-cl
C 841	13.4	0.8	16	1	ABL31167	Human HLA genotypi
C 842	13.4	0.8	16	1	ABX79735	EST polymorphic DN
C 843	13.4	0.8	16	1	ACCT8169	Human GCP-2 SNPs a
C 844	13.4	0.8	18	1	AA666362	PCR primer used me
C 845	13.4	0.8	21	1	ADG77919	Canine disease mar
C 846	13.2	0.7	37	1	AB197828	Non-endogenous hum
C 847	13.2	0.7	37	1	AB197827	Non-endogenous hum
C 848	13.3	0.7	15	1	AA152257	Mouse ICAM hammerh
C 849	13.3	0.7	15	1	AA152257	Mouse ICAM hammerh
C 850	13.3	0.7	15	1	AA152188	Mouse ICAM hammerh
C 851	13.3	0.7	15	1	AA155673	Human TNF-alpha ha
C 852	13.3	0.7	15	1	AA167297	Human FBP8 allele
C 853	13.3	0.7	15	1	AA167297	IGFBP3 oligonucleo
C 854	13.3	0.7	15	1	AA167297	IGFBP3 oligonucleo
C 855	13.3	0.7	15	1	AA167297	IGFBP3 oligonucleo
C 856	13.3	0.7	15	1	AA167297	Human anti-HER2 NC
C 857	13.3	0.7	15	1	ADV37407	Human anti-HER2 NC
C 858	13.3	0.7	15	1	ADV37407	Human Her2 class I
C 859	13.3	0.7	15	1	AA167297	Human GNRH2 gene p
C 860	13.3	0.7	15	1	ABL39489	Human ETPB allele-
C 861	13.3	0.7	15	1	ABL39489	Human interleukin
C 862	13.3	0.7	15	1	AA142977	Human cerberus 1 (
C 863	13.3	0.7	15	1	ABBS59475	RNA sequence #1, f
C 864	13.3	0.7	15	1	ABK81771	Human CHRM5 gene p
C 865	13.3	0.7	15	1	ABK81787	Human CHRM5 gene p
C 866	13.3	0.7	15	1	ABK81790	Human CHRM5 gene p
C 867	13.3	0.7	15	1	AA153513	Human GNRH2 gene p
C 868	13.3	0.7	15	1	ACN37146	Human peridontal
C 869	13.3	0.7	16	1	AAV43494	HIV-1 co-receptor
C 870	12.8	0.7	16	1	AAQ92112	p53 detection prob
C 871	12.8	0.7	16	1	AAQ92112	Human MTS2 PCR hem
C 872	12.8	0.7	16	1	AA100733	Multiple tumor su
C 873	12.8	0.7	16	1	AA191218	Hairpin ribozyme r
C 874	12.8	0.7	16	1	AA169786	Human multiple tum
C 875	12.8	0.7	16	1	AA160188	Synthetic cyclin B
C 876	12.8	0.7	16	1	AAV53836	Nucleotide sequenc
C 877	12.8	0.7	16	1	AAV11255	Human MTS2 PCR pri
C 878	12.8	0.7	16	1	AAV10600	PCR primer E1F for
C 879	12.8	0.7	16	1	AA159660	Human MTS2 mRNA ex
C 880	12.8	0.7	16	1	AA297624	HIV-1 protease gen
C 881	12.8	0.7	16	1	AA248799	PCR primer for hum
C 882	12.8	0.7	16	1	AA239998	PCR primer for hum
C 883	12.8	0.7	16	1	AA186546	Cyclin B1 hairpin
C 884	12.8	0.7	16	1	AA186546	PCNA hammerhead ri
C 885	12.8	0.7	16	1	AA139370	Human MTS2 PCR pri
C 886	12.8	0.7	16	1	AA131059	Antisense oligonuc
C 887	12.8	0.7	16	1	AA111192	Human multiple tum
C 888	12.8	0.7	16	1	AA166959	Human leukocyte an
C 889	12.8	0.7	16	1	AA166959	Primer #19. Homo
C 890	12.8	0.7	16	1	AA166959	PCR primer E1F use
C 891	12.8	0.7	16	1	AA166959	Human MTS2 CDNA am
C 892	12.8	0.7	16	1	AA166959	Primer E1F used to
C 893	12.8	0.7	16	1	AA166959	Cyclin B1 hairpin/
C 894	12.8	0.7	16	1	AA166959	Cyclin B1 hammethe
C 895	12.8	0.7	16	1	ABK28877	HPV blocker probe
C 896	12.8	0.7	16	1	ABBS5965	Human GDA represen
C 897	12.8	0.7	16	1	ACCS9079	Mouse gadd45beta c
C 898	12.8	0.7	16	1	AD133992	Optineurin promote
C 899	12.8	0.7	16	1	AA156944	Human hypoxia-indu
C 900	12.8	0.7	16	1	AD159964	Human survivin gen
C 901	12.8	0.7	16	1	AD159964	Human survivin ant
C 902	12.8	0.7	16	1	AD159964	Human survivin ant
C 903	12.8	0.7	16	1	AD159964	Human survivin ant
C 904	12.8	0.7	16	1	AD159964	Human survivin ant
C 905	12.8	0.7	16	1	AD159964	Human survivin ant
C 906	12.8	0.7	16	1	AD159964	Human survivin ant
C 907	12.8	0.7	16	1	AD159964	Mouse gadd45 DNA f
C 908	12.8	0.7	16	1	AD159964	Prostate cancer ge
C 909	12.8	0.7	16	1	AD159964	Human PMS8 TP6 pr
C 910	12.8	0.7	16	1	AD159964	Human genomic DNA

910	12.4	0.7	19	1	ADW27878	Cholinergic recept
ALIGNMENTS						
RESULT 1						
AB197828/c						
ID	AB197828	standard; DNA; 37 BP.				
XX						
AC	AB197828;					
XX						
DT	18-FEB-2002	(first entry)				
XX						
DE	Non-endogenous human GPCR 3' primer SEQ ID NO: 280.					
XX						
XX	Human; G protein-coupled receptor; GPCR; non-endogenous; mutant;					
KW	constitutively activated GPCR; agonist; disease; PCR primer; ss.					
XX						
OS	Homo sapiens.					
OS	Synthetic.					
XX						
PN	MO200177172-A2.					
XX						
PD	18-OCT-2001.					
XX						
PF	05-APR-2001; 2001MO-US011098.					
XX						
PR	07-APR-2000; 2000US-0195747P.					
XX						
PA	(AREN-) ARENA PHARM INC.					
XX						
PI	Lehmann-Bruinsma K, Liaw CM, Lin I;					
XX						
DR	WPI; 2001-648759/74.					
XX						
PT	Identifying agonists of G protein-coupled receptors (GPCRs) for use in					
PT	disease treatment, comprises contacting candidate compounds with versions					
PT	of GPCRs.					
XX						
XX	Example 2; Page 52; 394pp; English.					
XX						
CC	The invention relates to G protein-coupled receptors (GPCRs) for which					
CC	the endogenous ligand has been identified. Non-endogenous constitutively					
CC	activated versions of known GPCRs are used in the invention for the					
CC	direct identification of candidate compounds as receptor agonists,					
CC	inverse agonists or partial agonists. Such agonists are useful as					
CC	therapeutic agents for diseases or disorders associated with GPCRs. The					
CC	present sequence is a primer used to prepare a non-endogenous version of					
CC	a known GPCR in an example illustrating the invention					
XX						
SQ	Sequence 37 BP; 3 A; 12 C; 8 G; 14 T; 0 U; 0 Other;					
Query Match						
Best local Similarity 83.8%; Pred. No. 15;						
Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;						
OY	1449 GGUCAAGAGAAAGAACGCCGACCCUACGUGCG	1485				
DB	37 GGTCAAGAGAAAGAAAGAACGCCGACCCUACGUGCG	1				
RESULT 2						
AB197827						
ID	AB197827	standard; DNA; 37 BP.				
XX						
AC	AB197827;					
XX						
DT	18-FEB-2002	(first entry)				
XX						
DE	Non-endogenous human GPCR 5' primer SEQ ID NO: 279.					
XX						
KW	Human; G protein-coupled receptor; GPCR; non-endogenous; mutant;					

C 691	15.4	0.9	18	1	AED88402	Human leukocyte An
C 692	15.4	0.9	19	1	AAZ72578	Human biallelic ma
C 693	15.4	0.9	19	1	AAZ73102	Human biallelic ma
C 694	15.4	0.9	19	1	ADP79744	Hepatitis B virus
C 695	15	0.8	15	1	AAD05870	Human cholinergic
C 696	15	0.8	15	1	AAD05851	Human cholinergic
C 697	15	0.8	15	1	AAD05855	Human cholinergic
C 698	15	0.8	15	1	AAD05853	Human cholinergic
C 699	15	0.8	15	1	AAD05866	Human cholinergic
C 700	15	0.8	15	1	AAD05869	Human cholinergic
C 701	15	0.8	15	1	AAD05865	Human cholinergic
C 702	15	0.8	15	1	AAD05862	Human cholinergic
C 703	15	0.8	15	1	AAD05861	Human cholinergic
C 704	15	0.8	17	1	AAA24961	Oestrogen receptor
C 705	15	0.8	17	1	AAZ27262	Human MEX1 antisen
C 706	14.8	0.8	18	1	AAZ57686	Human G-alpha-12 a
C 707	14.6	0.8	18	1	ABX34294	PCR primer #1 for
C 708	14.6	0.8	17	1	ADX58092	Primer Gamma 15 fo
C 709	14.6	0.8	18	1	AA792041	Sense primer deriv
C 710	14.6	0.8	18	1	AA792017	Capture probe deri
C 711	14.4	0.8	17	1	AAV07214	Calcium-integrin b
C 712	14.4	0.8	17	1	ADVA9564	HBV DNAzyme substr
C 713	14.4	0.8	17	1	ADVA61822	HBV DNAzyme ribo
C 714	14.4	0.8	17	1	ADVA48881	HBV zinzyme ribozy
C 715	14.4	0.8	17	1	ADVA48759	HBV zinzyme ribozy
C 716	14.4	0.8	17	1	ADVA94459	HBV DNAzyme substr
C 717	14.4	0.8	17	1	ADVA61734	HBV ambertzyme ribo
C 718	14.4	0.8	17	1	ACD54032	HBV zinzyme substr
C 719	14.4	0.8	17	1	ACD53927	HBV zinzyme substr
C 720	14.4	0.8	17	1	ACD63215	Murine oligonucleo
C 721	14.4	0.8	17	1	ACD64380	Murine oligonucleo
C 722	14.4	0.8	17	1	ADMS9672	Hepatitis B virus
C 723	14.4	0.8	17	1	ADMS9618	Hepatitis B virus
C 724	14.4	0.8	18	1	AAA95979	TPA-F3 exon 2 5' s
C 725	14.4	0.8	18	1	AAAC6362	PCR primer used me
C 726	14.4	0.8	18	1	AAH91930	Human inflammatory
C 727	14.4	0.8	18	1	ABX79924	EST polymorphic DN
C 728	14.4	0.8	18	1	ADDS65523	Human gene express
C 729	14.4	0.8	18	1	ADX82758	Mediterranean anem
C 730	14.4	0.8	18	1	ABE19149	Primer B021PB for
C 731	14.4	0.8	18	1	ABE16016	Probe for blood ce
C 732	14.4	0.8	18	1	ABE16009	Probe for blood ce
C 733	14	0.8	16	1	AAZ44479	Tomato restriction
C 734	14	0.8	17	1	AAAB9373	DNA sequence of GP
C 735	14	0.8	17	1	AD194395	Human VCAW-associa
C 736	14	0.8	17	1	ABT35752	Tumour suppression
C 737	14	0.8	17	1	ABT39960	Tumour suppressio
C 738	14	0.8	17	1	ACC53382	Human tumour suppr
C 739	14	0.8	31	1	AAI30657	Human single nucle
C 740	13.8	0.8	17	1	ADG76483	Human leukocyte an
C 741	13.8	0.8	17	1	AAK71350	Human KDR VEGF rec
C 742	13.8	0.8	17	1	AAK72924	Mouse flk-1 VEGF r
C 743	13.8	0.8	17	1	AAAV97482	Human EGF-R target
C 744	13.8	0.8	17	1	AAAB6047	Human genomic SNP
C 745	13.8	0.8	17	1	AAA36049	Human genomic SNP
C 746	13.8	0.8	17	1	ADMB99344	Human PTP-1B NCH r
C 747	13.8	0.8	17	1	ADV38993	HBV hammerhead rib
C 748	13.8	0.8	17	1	ADVA4213	Human Her2 class I
C 749	13.8	0.8	17	1	ADMB1480	Human PTP-1B hamme
C 750	13.8	0.8	17	1	ADVA6485	Human Her2 class I
C 751	13.8	0.8	17	1	ADN08955	Human PTP-1B DNAzy
C 752	13.8	0.8	17	1	ADN09139	Human PTP-1B DNAzy
C 753	13.8	0.8	17	1	ABN02309	Human GMP-1 17-m
C 754	13.8	0.8	17	1	ABO64199	Human KROMA portl
C 755	13.8	0.8	17	1	ABST75110	Human PVP-Ba asso
C 756	13.8	0.8	17	1	ABV90085	Human POSH1 scan
C 757	13.8	0.8	17	1	ABKS6975	Human CICAL gene e
C 758	13.8	0.8	17	1	ABKS7457	Human CICAL gene e
C 759	13.8	0.8	17	1	ACN08066	WNV minus strand H
C 760	13.8	0.8	17	1	ACN14064	WNV minus strand D
C 761	13.8	0.8	17	1	ACN06766	WNV Ambertzyme subs
C 762	13.8	0.8	17	1	ACN00273	WNV Hammerhead Rib
C 763	13.8	0.8	17	1	ACN04254	WNV zinzyme substr
C 764	13.8	0.8	17	1	ACN12490	WNV minus strand Z
C 765	13.8	0.8	17	1	ACN01779	WNV DNAzyme substr
C 766	13.8	0.8	17	1	ACN05337	WNV DNAzyme substr
C 767	13.8	0.8	17	1	ACN15104	WNV minus strand A
C 768	13.8	0.8	17	1	ABT35871	Tumour suppression
C 769	13.8	0.8	17	1	ACA06558	NFKB sub-unit modu
C 770	13.8	0.8	17	1	ACA06557	NFKB sub-unit modu
C 771	13.8	0.8	17	1	ACA06556	NFKB sub-unit modu
C 772	13.8	0.8	17	1	ADB05992	Human MD212b scan
C 773	13.8	0.8	17	1	ADB03586	Human MD27 scan1n
C 774	13.8	0.8	17	1	ADB03585	Human MD27 scan1n
C 775	13.8	0.8	17	1	ABZ64829	Human HER2 DNAzyme
C 776	13.8	0.8	17	1	ABZ65495	Human HER2 DNAzyme
C 777	13.8	0.8	17	1	ACD63055	HCV minus strand D
C 778	13.8	0.8	17	1	ACD59614	HCV DNAzyme substr
C 779	13.8	0.8	17	1	ACD60608	HCV DNAzyme substr
C 780	13.8	0.8	17	1	ACD51564	HBV hammerhead rib
C 781	13.8	0.8	17	1	ACD64713	HCV minus strand D
C 782	13.8	0.8	17	1	ACD67984	Murine oligonucleo
C 783	13.8	0.8	17	1	ACC67516	Murine oligonucleo
C 784	13.8	0.8	17	1	ACC64254	Murine oligonucleo
C 785	13.8	0.8	17	1	ADB41161	Tumour suppression
C 786	13.8	0.8	17	1	ADB44177	Tumour suppression
C 787	13.8	0.8	17	1	ADB43561	Tumour suppression
C 788	13.8	0.8	17	1	ADC04113	Human Na/H exchang
C 789	13.8	0.8	17	1	ADC37820	Human AMLPia scan
C 790	13.8	0.8	17	1	ADB45399	Tumour suppression
C 791	13.8	0.8	17	1	AD148646	Human tumour suppr
C 792	13.8	0.8	17	1	AD150810	Human tumour suppr
C 793	13.8	0.8	17	1	AD149697	Human tumour suppr
C 794	13.8	0.8	17	1	ABX94795	Beta-actin PCR pti
C 795	13.8	0.8	17	1	ADL50113	Human PKR substrat
C 796	13.8	0.8	17	1	ADL49742	Human PKR substrat
C 797	13.8	0.8	17	1	ABE58314	Human VEGF recepto
C 798	13.8	0.8	17	1	ADP92104	Human cytolestatin
C 799	13.8	0.8	17	1	ADMS8521	Hepatitis B virus
C 800	13.8	0.8	17	1	AD184170	HCV DNAzyme substr
C 801	13.8	0.8	17	1	AD184660	HCV DNAzyme substr
C 802	13.8	0.8	17	1	AD185893	HCV DNAzyme substr
C 803	13.8	0.8	17	1	AD186711	HCV DNAzyme substr
C 804	13.8	0.8	17	1	ADP46073	Extend primer 45 u
C 805	13.8	0.8	17	1	ACN65399	Human GMP-1 prob
C 806	13.8	0.8	17	1	ADV12595	Forward RT-PCR pti
C 807	13.8	0.8	17	1	ADV26279	Human beta-actin c
C 808	13.8	0.8	17	1	ADX99460	Extend primer 33 u
C 809	13.8	0.8	17	1	ADZ33903	Human HER2 substra
C 810	13.8	0.8	17	1	ADZ34569	Human HER2 substra
C 811	13.8	0.8	17	1	ABE35378	Human leukocyte an
C 812	13.8	0.8	17	1	ABE35374	Human leukocyte an
C 813	13.8	0.8	17	1	ABE352637	Human leukocyte an
C 814	13.8	0.8	17	1	ABE16022	Probe for blood ce
C 815	13.8	0.8	17	1	ABE16029	Probe for blood ce
C 816	13.6	0.8	15	1	ABE52248	Human PKG2 allele
C 817	13.4	0.8	15	1	AAK64643	Human B-1 hammetn
C 818	13.4	0.8	15	1	AAZ64090	Substrate for ham
C 819	13.4	0.8	15	1	AAZ05872	Human cholinergic
C 820	13.4	0.8	15	1	AAZ05871	Human cholinergic
C 821	13.4	0.8	15	1	AAZ05864	Human cholinergic
C 822	13.4	0.8	15	1	AAZ05867	Human cholinergic
C 823	13.4	0.8	15	1	AAZ05854	Human cholinergic
C 824	13.4	0.8	15	1	AAZ05856	Human cholinergic
C 825	13.4	0.8	15	1	AAZ05863	Human cholinergic
C 826	13.4	0.8	15	1	AAZ05868	Human cholinergic
C 827	13.4	0.8	15	1	AAZ05852	Human cholinergic
C 828	13.4	0.8	15	1	AAZ46730	ICGFP3 oligonucleo
C 829	13.4	0.8	15	1	AAZ46731	ICGFP3 oligonucleo
C 830	13.4	0.8	15	1	AAA91436	Human CHRM5 gene,
C 831	13.4	0.8	15	1	AAA91451	Human CHRM5 gene,
C 832	13.4	0.8	15	1	AAA91454	Human CHRM5 gene,
C 833	13.4	0.8	15	1	ADV20569	Human anti-Her2 ha
C 834	13.4	0.8	15	1	ADV35913	Human anti-HER2 NC
C 835	13.4	0.8	15	1	ABX01143	Hepatitis C virus
C 836	13.4	0.8	15	1	ABE75851	Hepatitis C virus

C 545	19	1.1	21	1	ADM27991	Cholinergic recept
C 546	19	1.1	21	1	ADM27995	Cholinergic recept
C 547	19	1.1	21	1	ADM27917	Cholinergic recept
C 548	19	1.1	21	1	ADM27993	Cholinergic recept
C 549	19	1.1	21	1	ADM27955	Cholinergic recept
C 550	19	1.1	21	1	ADM27911	Cholinergic recept
C 551	19	1.1	21	1	ADM27998	Cholinergic recept
C 552	19	1.1	21	1	ADM27914	Cholinergic recept
C 553	19	1.1	21	1	ADM27969	Cholinergic recept
C 554	19	1.1	21	1	ADM27987	Cholinergic recept
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C 557	19	1.1	21	1	ADM27939	Cholinergic recept
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C 568	19	1.1	21	1	ABEA02386	Cholinergic recept
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C 633	18	1.0	18	1	ADM97793	Reverse primer for
634	18	1.0	20	1	AA597754	Murine SAC1 gene-s
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C 637	17.8	1.0	22	1	ABR84929	Cadherin-like asyn
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C 641	17.4	1.0	20	1	ABE87549	Human gene 7 ampli
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C 644	17	1.0	18	1	AB597720	Human kelleikin 2
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C 646	16.8	0.9	20	1	AAA66540	Dog genomic marker
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665	16.4	0.9	20	1	AAZ01770	PCR primer used to
666	16.4	0.9	20	1	AAZ35086	Herpesvirus entry
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C 670	15.8	0.9	19	1	ADH01514	Protein tyrosine p
671	15.8	0.9	19	1	ADR98261	Primer of the inve
C 672	15.8	0.9	19	1	ADR27216	Human single nucle
C 673	15.8	0.9	19	1	ABEC82252	Human marker rever
C 674	15.8	0.9	19	1	ACE90641	STAT-3 siRNA targe
C 675	15.8	0.9	19	1	ACE90918	STAT-3 siRNA antis
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C 677	15.4	0.9	17	1	ADV47176	HBV inozyme subutr
C 678	15.4	0.9	17	1	ADV47175	HBV inozyme subutr
C 679	15.4	0.9	17	1	ACD52496	HBV inozyme subutr
C 680	15.4	0.9	17	1	ACD52497	HBV inozyme subutr
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GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

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3.418 Million cell updates/sec

Title: US-10-798-090A-305

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Searched: 904 seqs, 17348 residues

Total number of hits satisfying chosen parameters: 1808

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 910 summaries

Database : rng.subdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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C 1	32.2	1.8	37	1	AB197828 Non-endogenous hum
C 2	32.2	1.8	37	1	AB197827 Non-endogenous hum
C 3	26.8	1.5	30	1	AA294304 Rat M3 muscarinic
C 4	26.8	1.5	30	1	AA294355 Rat muscarinic ace
C 5	26.8	1.5	32	1	AB197627 Endogenous human G
C 6	25.2	1.4	30	1	AA294307 Drosophila muscar
C 7	25.2	1.4	30	1	AA294353 Rat M3 muscarinic
C 8	25.2	1.4	30	1	AA294353 Rat muscarinic ace
C 9	25.2	1.4	30	1	AA294358 Drosophila muscar
C 10	25.2	1.4	31	1	AA130840 Human single nucle
C 11	25.2	1.4	31	1	AA130840 Human single nucle
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C 13	24	1.4	24	1	AA030657 Human CHRM3 gene a
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Job time : 13 secs

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RESULT 526
AX633609 AX633609 15 bp RNA linear PAT 21-FEB-2003
LOCUS Sequence 748 from Patent EP1260586.
DEFINITION AX633609
ACCESSION AX633609
VERSION AX633609.1 GI:28469223
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE unclassified sequences.
AUTHORS 1
Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Dizenzo,A.,
Karpeisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,U.,
Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method and reagent for inhibiting the expression of disease related
genes
JOURNAL Patent: EP 1260586-A 748 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES Location/Qualifiers
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Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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LOCUS Sequence 3350 from Patent EP1260586.
DEFINITION AX636211
ACCESSION AX636211
VERSION AX636211.1 GI:28471825
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE unclassified sequences.
AUTHORS 1
Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Dizenzo,A.,
Karpeisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,U.,
Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method and reagent for inhibiting the expression of disease related
genes
JOURNAL Patent: EP 1260586-A 3350 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES Location/Qualifiers
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14 GAGCAGAGACTGG 1

RESULT 528
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LOCUS Sequence 4024 from Patent EP1260586.
DEFINITION AX636885
ACCESSION AX636885
VERSION AX636885.1 GI:28472499
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE unclassified sequences.
AUTHORS 1
Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Dizenzo,A.,
Karpeisky,A., Draper,K.G., Kisch,K., Matulic-Adamic,U.,
Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method and reagent for inhibiting the expression of disease related
genes
JOURNAL Patent: EP 1260586-A 4024 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
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2 AACGTGACTCAT 15

RESULT 529
CS096202 CS096202 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 27 from Patent WO2005045040.
DEFINITION CS096202
ACCESSION CS096202
VERSION CS096202.1 GI:66952675
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 27 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
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/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 0.7%; Score 12.4; DB 1; Length 19;
Best Local Similarity 85.7%; Pred. No. 4.7e+02;

Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1158 GGACACCTCGCAG 1171
Db 14 GGACACCTCGCAG 1

RESULT 521
AR226465
LOCUS AR226465 15 bp mRNA linear PAT 20-DEC-2002
DEFINITION Sequence 11 from patent US 6444789.
ACCESSION AR226465
VERSION AR226465.1 GI:27265002
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Luo, S.
TITLE CD16-II variants
JOURNAL Patent: US 6444789-A 11 03-SEP-2002;
Applied Research Systems ARS Holding N.V.;
WOX;

FEATURES
source 1. .15
/organism="unknown"
/mol_type="mRNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAG 1725
Db 2 AGCAGTAGCAGCAG 15

RESULT 522
AR226474/c
LOCUS AR226474 15 bp mRNA linear PAT 20-DEC-2002
DEFINITION Sequence 22 from patent US 6444789.
ACCESSION AR226474
VERSION AR226474.1 GI:27265011
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Luo, S.
TITLE CD16-II variants
JOURNAL Patent: US 6444789-A 22 03-SEP-2002;
Applied Research Systems ARS Holding N.V.;
WOX;

FEATURES
source 1. .15
Location/Qualifiers
/organism="unknown"
/mol_type="mRNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAG 1725
Db 14 AGCAGTAGCAGCAG 1

RESULT 523
161824/c
LOCUS 161824 15 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 378 from patent US 5658780.
ACCESSION 161824
VERSION 161824.1 GI:2479772

KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Stinchcomb, D.T., Draper, K.G. and McSwiggen, J.
JOURNAL Rel a targeted ribozymes
TITLE Patent: US 5658780-A 378 19-AUG-1997;
JOURNAL Location/Qualifiers
FEATURES 1. .15
source /organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1177 GAGCAGGACGCGG 1190
Db 14 GAGCAGGACGCTGG 1

RESULT 524
AR708719/c
LOCUS AR708719 15 bp DNA linear PAT 21-SEP-2005
DEFINITION Sequence 19 from patent US 6936259.
ACCESSION AR708719
VERSION AR708719.1 GI:75998630
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Potter, A.A., Perez-Casal, J., Fontaine, M. and Song, X.
TITLE CAMP factor of Streptococcus uberis
JOURNAL Patent: US 6936259-A 19 30-AUG-2005;
University of Saskatchewan; Saskatchewan;
CAK;

FEATURES
source 1. .15
Location/Qualifiers
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 3.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 816 GACGAGGACGAGA 829
Db 15 GACGAGGACGAGA 2

RESULT 525
AX633376
LOCUS AX633376 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 515 from Patent EP1260586.
ACCESSION AX633376
VERSION AX633376.1 GI:28468990
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1
AUTHORS Stinchcomb, D.T., Dudycz, L.W., Chowrira, B., Grimm, S., Dizenzo, A., Karpelsky, A., Draper, K.G., Kistich, K., Matulic-Adamic, J., McSwiggen, J.A., Modak, A., Pavco, P., Beigelman, L., Sullivan, S.M., Swedler, D., Thompson, J.D., Tracz, D., Usman, N., Wincott, F.E. and Woolf, T.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 515 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES Location/Qualifiers

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 3.1e+02;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 96 AACCGCAGCAGC 109
|||:||||:|:
2 AACTGCTACTCAT 15

Db

RESULT 516
CS104321 15 bp DNA PAT 10-JUN-2005
DEFINITION Sequence 41 from Patent WO2005047318.
ACCESSION CS104321
VERSION CS104321.1 GI:67512538
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Bostwick,R.J., Corradi,J., Defay,T., Furlong,S., Hirata,L.T.,
Kavyn,V., and Robbins,A.
TITLE Gnal splice variant and uses thereof
JOURNAL Patent: WO 2005047318-A 41 26-MAY-2005;
Astrazeneca AB (SE)
FEATURES
source location/Qualifiers
1..15
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Primer"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 3.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 965 CCAGCUCGAGCAG 978
|||||:|||||:
1 CCGAGCCCGAGCAG 14

Db

RESULT 517
AR179938 15 bp DNA PAT 20-APR-2002
LOCUS AR179938
DEFINITION Sequence 6 from patent US 6333152.
ACCESSION AR179938
VERSION AR179938.1 GI:20221971
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Vogelstein,B., Kinzler,K.W., Zhang,L. and Zhou,W.
TITLE Gene expression profiles in normal and cancer cells
JOURNAL Patent: US 6333152-A 6 25-DEC-2001;
FEATURES
source location/Qualifiers
1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 399 AUGGCGCCTTAGGGA 412
|:||||:|:
2 ATGGGCTTAGGGA 15

Db

RESULT 518
AR179958 15 bp DNA PAT 20-APR-2002
LOCUS AR179958/c
DEFINITION Sequence 26 from patent US 6333152.

ACCESSION AR179958
VERSION AR179958.1 GI:20221991
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Vogelstein,B., Kinzler,K.W., Zhang,L. and Zhou,W.
TITLE Gene expression profiles in normal and cancer cells
JOURNAL Patent: US 6333152-A 26 25-DEC-2001;
FEATURES
source location/Qualifiers
1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 3.1e+02;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 602 CUCGCGCAUCUG 615
|:||||:|:
14 CTCCTGCTCATG 1

Db

RESULT 519
AR180430 15 bp DNA PAT 20-APR-2002
LOCUS AR180430
DEFINITION Sequence 498 from patent US 6333152.
ACCESSION AR180430
VERSION AR180430.1 GI:20222463
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Vogelstein,B., Kinzler,K.W., Zhang,L. and Zhou,W.
TITLE Gene expression profiles in normal and cancer cells
JOURNAL Patent: US 6333152-A 498 25-DEC-2001;
FEATURES
source location/Qualifiers
1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 399 AUGGCGCCTTAGGGA 412
|:||||:|:
2 ATGGGCTTAGGGA 15

Db

RESULT 520
AR180530 15 bp DNA PAT 20-APR-2002
LOCUS AR180530/c
DEFINITION Sequence 598 from patent US 6333152.
ACCESSION AR180530
VERSION AR180530.1 GI:20222563
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Vogelstein,B., Kinzler,K.W., Zhang,L. and Zhou,W.
TITLE Gene expression profiles in normal and cancer cells
JOURNAL Patent: US 6333152-A 598 25-DEC-2001;
FEATURES
source location/Qualifiers
1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;

FR Key Location/Qualifiers
FT source 1..15
/organism='Hepatitis virus (hepatitis C FT
virus)'
Location/Qualifiers
1..15
/organism='unidentified'
/mol_type='genomic RNA'
/db_xref='taxon:32644'

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 3.1e+02;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 383 ACATCATCATGAT 14
|||||:|:|:
1 ACATCATCATGAT 14

RESULT 512
LOCUS CS002487 15 bp DNA linear PAT 07-FEB-2005
DEFINITION Sequence 515 from Patent EP1502950.
ACCESSION CS002487
VERSION CS002487.1 GI:58737842
KEYWORDS
SOURCE .
ORGANISM unidentified
unidentified
unclassified sequences.

REFERENCE
AUTHORS 1
Stinchcomb,D.T., Chowrira,B., Drenzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpeisky,A., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method for purifying chemically modified RNA
JOURNAL Patent: EP 1502950-A 515 02-FEB-2005;
Ribozyne Pharmaceuticals, Inc. (US)
FEATURES
source 1..15
/organism='unidentified'
/mol_type='unassigned DNA'
/db_xref='taxon:32644'

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1355 CCACGCTACCTCTG 14
|||||:|:|:
1 CCACGCTACCTCTG 14

RESULT 513
LOCUS CS002720 15 bp DNA linear PAT 07-FEB-2005
DEFINITION Sequence 748 from Patent EP1502950.
ACCESSION CS002720
VERSION CS002720.1 GI:58738075
KEYWORDS
SOURCE .
ORGANISM unidentified
unidentified
unclassified sequences.

REFERENCE
AUTHORS 1
Stinchcomb,D.T., Chowrira,B., Drenzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpeisky,A., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method for purifying chemically modified RNA
JOURNAL Patent: EP 1502950-A 748 02-FEB-2005;
Ribozyne Pharmaceuticals, Inc. (US)
FEATURES
Location/Qualifiers

source 1..15
/organism='unidentified'
/mol_type='unassigned DNA'
/db_xref='taxon:32644'

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1355 CCACGCTACCTCTG 14
|||||:|:|:
1 CCACGCTACCTCTG 14

RESULT 514
LOCUS CS005322/c 15 bp DNA linear PAT 07-FEB-2005
DEFINITION Sequence 3350 from Patent EP1502950.
ACCESSION CS005322
VERSION CS005322.1 GI:58740677
KEYWORDS
SOURCE .
ORGANISM unidentified
unidentified
unclassified sequences.

REFERENCE
AUTHORS 1
Stinchcomb,D.T., Chowrira,B., Drenzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpeisky,A., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method for purifying chemically modified RNA
JOURNAL Patent: EP 1502950-A 3350 02-FEB-2005;
Ribozyne Pharmaceuticals, Inc. (US)
FEATURES
source 1..15
/organism='unidentified'
/mol_type='unassigned DNA'
/db_xref='taxon:32644'

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1177 GAGGAGAGCTGGG 1
|||||:|:|:
14 GAGGAGAGCTGGG 1

RESULT 515
LOCUS CS005996 15 bp DNA linear PAT 07-FEB-2005
DEFINITION Sequence 4024 from Patent EP1502950.
ACCESSION CS005996
VERSION CS005996.1 GI:58741351
KEYWORDS
SOURCE .
ORGANISM unidentified
unidentified
unclassified sequences.

REFERENCE
AUTHORS 1
Stinchcomb,D.T., Chowrira,B., Drenzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpeisky,A., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE Method for purifying chemically modified RNA
JOURNAL Patent: EP 1502950-A 4024 02-FEB-2005;
Ribozyne Pharmaceuticals, Inc. (US)
FEATURES
Location/Qualifiers
1..15
/organism='unidentified'
/mol_type='unassigned DNA'
/db_xref='taxon:32644'

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/mcl_type="genomic DNA"
/db_xref="taxon:32644"

Query Match      0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 57.1%; Pred. No. 3.1e+02;
Matches      8; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      264 GGAAATGTCAT 277
DB      14 GGAAATGTCAT 1

RESULT 509
LOCUS      BD208892      15 bp      RNA      linear      PAT 17-JUL-2003
DEFINITION      Enzymatic nucleic acid treatment of diseases or conditions related
                  to hepatitis C virus infection.
ACCESSION      BD208892
VERSION      BD208892.1 GI:33018662
KEYWORDS      JP 2002512791-A/2482.
SOURCE      unidentified
ORGANISM      unclassified sequences.
REFERENCE      1 (bases 1 to 15)
AUTHORS      Blatt,L., Mcswigen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
TITLE      Enzymatic nucleic acid treatment of diseases or conditions related
            to hepatitis C virus infection
JOURNAL      Patent: JP 2002512791-A 2482 08-MAY-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Hepatitis virus (hepatitis C virus)
            PN JP 2002512791-A/2482
            PD 08-MAY-2002
            PF 26-APR-1999 JP 2000545591
            PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR
            25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
            LAWRENCE BLATT, JAMES A MCSWIGEN, ELISABETH ROBERTS, PAMELA A PI
            PAVCO,
            PI DENNIS MACEJAK
            PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
            A61K37/66,
            PC C12N15/00
            CC Enzymatic nucleic acid treatment of diseases or conditions
            related to
            CC hepatitis C virus infection.
            FH Key Location/Qualifiers
            FT source 1..15
            FT /organism='Hepatitis virus (hepatitis C
            FT virus)'
            FT location/Qualifiers
            FT 1..15
            FT /organism='unidentified'
            FT /mcl_type='genomic RNA'
            FT /db_xref='taxon:32644'

Query Match      0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 3.1e+02;
Matches      9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      485 UCAGCUUUGACAGA 498
DB      2 TCACCTTGACAGA 15

RESULT 510
LOCUS      BD208893      15 bp      RNA      linear      PAT 17-JUL-2003
DEFINITION      Enzymatic nucleic acid treatment of diseases or conditions related
                  to hepatitis C virus infection.
ACCESSION      BD208893
VERSION      BD208893.1 GI:33018663
KEYWORDS      JP 2002512791-A/2483.
SOURCE      unidentified
ORGANISM      unidentified

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unclassified sequences.
REFERENCE      1 (bases 1 to 15)
AUTHORS      Blatt,L., Mcswigen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
TITLE      Enzymatic nucleic acid treatment of diseases or conditions related
            to hepatitis C virus infection
JOURNAL      Patent: JP 2002512791-A 2483 08-MAY-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Hepatitis virus (hepatitis C virus)
            PN JP 2002512791-A/2483
            PD 08-MAY-2002
            PF 26-APR-1999 JP 2000545591
            PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR
            25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
            LAWRENCE BLATT, JAMES A MCSWIGEN, ELISABETH ROBERTS, PAMELA A PI
            PAVCO,
            PI DENNIS MACEJAK
            PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
            A61K37/66,
            PC C12N15/00
            CC Enzymatic nucleic acid treatment of diseases or conditions
            related to
            CC hepatitis C virus infection.
            FH Key Location/Qualifiers
            FT source 1..15
            FT /organism='Hepatitis virus (hepatitis C
            FT virus)'
            FT location/Qualifiers
            FT 1..15
            FT /organism='unidentified'
            FT /mcl_type='genomic RNA'
            FT /db_xref='taxon:32644'

Query Match      0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 3.1e+02;
Matches      9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      485 UCAGCUUUGACAGA 498
DB      1 TCACCTTGACAGA 14

RESULT 511
LOCUS      BD208983      15 bp      RNA      linear      PAT 17-JUL-2003
DEFINITION      Enzymatic nucleic acid treatment of diseases or conditions related
                  to hepatitis C virus infection.
ACCESSION      BD208983
VERSION      BD208983.1 GI:33018753
KEYWORDS      JP 2002512791-A/2573.
SOURCE      unidentified
ORGANISM      unclassified sequences.
REFERENCE      1 (bases 1 to 15)
AUTHORS      Blatt,L., Mcswigen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
TITLE      Enzymatic nucleic acid treatment of diseases or conditions related
            to hepatitis C virus infection
JOURNAL      Patent: JP 2002512791-A 2573 08-MAY-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT      OS Hepatitis virus (hepatitis C virus)
            PN JP 2002512791-A/2573
            PD 08-MAY-2002
            PF 26-APR-1999 JP 2000545591
            PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR
            25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
            LAWRENCE BLATT, JAMES A MCSWIGEN, ELISABETH ROBERTS, PAMELA A PI
            PAVCO,
            PI DENNIS MACEJAK
            PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
            A61K37/66,
            PC C12N15/00
            CC Enzymatic nucleic acid treatment of diseases or conditions
            related to
            CC hepatitis C virus infection.

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JOURNAL Inter cellular adhesion molecule-1 (ICAM-1)
Patent: US 613967-A 571 17-OCT-2000;
Location/Qualifiers
source 1. .15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1355 CCACUCUACCCUG 1368
|||||:|:|:|:|:
Db 1 CCACGCTACTCTG 14

RESULT 505
AR133631/c AR133631 15 bp DNA linear PAT 16-MAY-2001
LOCUS Sequence 2056 from patent US 6194150.
DEFINITION AR133631
ACCESSION AR133631
VERSION AR133631.1 GI:14122536
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE Unclassified.
1 (bases 1 to 15)
AUTHORS Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.
TITLE Nucleic acid based inhibition of CD40
JOURNAL Patent: US 6194150-A 2056 27-FEB-2001;
FEATURES Location/Qualifiers
source 1. .15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 282 GGUCAACAAGCAGC 295
|||:|:|:|:|:
Db 15 GGTCAAGCAGCAGC 2

RESULT 506
AR133905/c AR133905 15 bp DNA linear PAT 16-MAY-2001
LOCUS Sequence 2330 from patent US 6194150.
DEFINITION AR133905
ACCESSION AR133905
VERSION AR133905.1 GI:14122810
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 15)
AUTHORS Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.
TITLE Nucleic acid based inhibition of CD40
JOURNAL Patent: US 6194150-A 2330 27-FEB-2001;
FEATURES Location/Qualifiers
source 1. .15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 282 GGUCAACAAGCAGC 295
|||:|:|:|:|:
Db 15 GGTCAAGCAGCAGC 2

RESULT 507

AX937516/c AX937516 15 bp DNA linear PAT 06-JAN-2004
LOCUS Sequence 19 from Patent WO03091437.
DEFINITION AX937516
ACCESSION AX937516
VERSION AX937516.1 GI:40713556
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Potter,A.A., Perez-Casal,J., Fontaine,M. and Song,X.
TITLE Chimeric camp factors for vaccination against streptococcus
infection
JOURNAL Patent: WO 03091437-A 19 06-NOV-2003;
University of Saskatchewan (CA)
Location/Qualifiers

FEATURES
source 1. .15
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: 556-2"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 3.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 816 GACAGAGCGCAGCA 829
|||||:|:|:|:|:
Db 15 GACAGAGCGCAGCA 2

RESULT 508
BD074150/c BD074150 15 bp DNA linear PAT 27-AUG-2002
LOCUS Composition binding specifically to colorectal cancer and
DEFINITION utilization thereof.
ACCESSION BD074150
VERSION BD074150.1 GI:22619753
KEYWORDS JP 2001512666-A/41.
SOURCE unidentified
ORGANISM unidentified
REFERENCE unclassified sequences.
1 (bases 1 to 15)
AUTHORS Waldman,S.A., Pearlman,J.M., Barber,M.T., Schultz,S. and
Parkinson,S.J.
TITLE Composition binding specifically to colorectal cancer and
JOURNAL utilization thereof
PATENT: JP 2001512666-A 41 28-AUG-2001;
THOMAS JEFFERSON UNIVERSITY
COMMENT OS Unidentified
PN JP 2001512666-A/41
PD 28-AUG-2001
PF 07-AUG-1998 JP 2000506228
PR 07-AUG-1997 US 08/908643
PI SCOTT A WALDMAN, JOSHUA M PEARLMAN, MICHAEL T BARBER, STEPHANIE
SCHULTZ,
PI SCOTT J PARKINSON
PC C12N15/09,C12N1/15,C12N1/19,C12N1/21,C12N5/10,C12O1/68,G01N33/
PC 574//
PC A61K31/7088,A61K39/00,A61K39/395,A61K39/395,A61K48/00,A61P35/
PC 00,A61P35/04,
PC C12N15/00,C12N5/00
CC Strandedness: Double;
CC Topology: Linear;
CC Composition binding specifically to colorectal cancer and CC
utilization
CC thereof
FH Key location/Qualifiers
FT source 1. .15
/organism='unidentified'.
FEATURES Location/Qualifiers
source 1. .15
/organism="unidentified"

AUTHORS Grimm,S., Stinchcomb,D.T., McSwiggen,J., Sullivan,S. and Draper,K.G.
TITLE Inter cellular adhesion molecule-1 (ICAM-1) ribozymes
JOURNAL Patent: US 5837542-A 571 17-NOV-1998;
FEATURES Location/Qualifiers
source 1. 15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1355 CCACUCUACCTCUG 1368
DB 1 CCACGCTACTCTCG 14

RESULT 500
AR071406 15 bp DNA linear PAT 18-FEB-2000
LOCUS AR071406 Sequence 1 from patent US 5910583.
DEFINITION AR071406
ACCESSION AR071406
VERSION AR071406.1 GI:7222294
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Marks,J.R., Vaughn,J.P. and Ingelhart,J.D.
TITLE Antisense oligonucleotides against ERBB-2
JOURNAL Patent: US 5910583-A 1 08-JUN-1999;
FEATURES Location/Qualifiers
source 1. 15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 3.1e+02;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1095 CUCCAUUCUGUCUCA 1108
DB 1 CTCGATGTCGTCTA 14

RESULT 501
AR092455 15 bp DNA linear PAT 08-SEP-2000
LOCUS AR092455 Sequence 11 from patent US 5998166.
DEFINITION AR092455
ACCESSION AR092455
VERSION AR092455.1 GI:10019209
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Luo,S.
TITLE CD16-II variants
JOURNAL Patent: US 5998166-A 11 07-DEC-1999;
FEATURES Location/Qualifiers
source 1. 15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAG 1725
DB 2 AGCAGTAGCAGCAG 15

RESULT 502
AR092464/c 15 bp DNA linear PAT 08-SEP-2000
LOCUS AR092464/c Sequence 22 from patent US 5998166.
DEFINITION AR092464
ACCESSION AR092464
VERSION AR092464.1 GI:10019218
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Luo,S.
TITLE CD16-II variants
JOURNAL Patent: US 5998166-A 22 07-DEC-1999;
FEATURES Location/Qualifiers
source 1. 15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAG 1725
DB 14 AGCAGTAGCAGCAG 1

RESULT 503
AR114031 15 bp DNA linear PAT 16-MAY-2001
LOCUS AR114031 Sequence 477 from patent US 6132967.
DEFINITION AR114031
ACCESSION AR114031
VERSION AR114031.1 GI:14094353
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwiggen,J., Sullivan,S. and Draper,K.G.
TITLE Ribozyme treatment of diseases or conditions related to levels of intercellular adhesion molecule-1 (ICAM-1)
JOURNAL Patent: US 6132967-A 477 17-OCT-2000;
FEATURES Location/Qualifiers
source 1. 15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1355 CCACUCUACCTCUG 1368
DB 1 CCACGCTACTCTCG 14

RESULT 504
AR114125 15 bp DNA linear PAT 16-MAY-2001
LOCUS AR114125 Sequence 571 from patent US 6132967.
DEFINITION AR114125
ACCESSION AR114125
VERSION AR114125.1 GI:14094447
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwiggen,J., Sullivan,S. and Draper,K.G.
TITLE Ribozyme treatment of diseases or conditions related to levels of

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 3.2e+02;
Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 685 CCCACCAUACUUTUG 700
DB 16 CCCACTATATATTTTG 1

RESULT 495
LOCUS AX132918 16 bp DNA linear PAT 15-MAY-2001
DEFINITION Sequence 4136 from Patent WO0130362.
ACCESSION AX132918
VERSION AX132918.1 GI:14139228
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.

REFERENCE 1
AUTHORS Robbins,J.M. and Tritz,R.
TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases
JOURNAL Patent: WO 0130362-A 4136 03-MAY-2001;
IMMUSOL, INC. (US)
FEATURES
source Location/Qualifiers
1..16
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
/note="Hairpin ribozyme recognition site for cyclin B1"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 3.2e+02;
Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 725 UGCCUGUACACCAUUAU 740
DB 1 TGACTGTCTCCATTAT 16

RESULT 496
LOCUS AX133148 16 bp DNA linear PAT 15-MAY-2001
DEFINITION Sequence 4366 from Patent WO0130362.
ACCESSION AX133148
VERSION AX133148.1 GI:14139458
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.

REFERENCE 1
AUTHORS Robbins,J.M. and Tritz,R.
TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases
JOURNAL Patent: WO 0130362-A 4366 03-MAY-2001;
IMMUSOL, INC. (US)
FEATURES
source Location/Qualifiers
1..16
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
/note="Hammerhead ribozyme recognition site for cyclin B1"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 3.2e+02;
Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 725 UGCCUGUACACCAUUAU 740
DB 1 TGACTGTCTCCATTAT 16

RESULT 497
LOCUS AR041461 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 251 from patent US 5811300.
ACCESSION AR041461
VERSION AR041461.1 GI:5961957
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Sullivan,S., Draper,K., Kisich,K., Stinchcomb,D.T. and McSwiggen,J.
TITLE TNF- α ribozymes
JOURNAL Patent: US 5811300-A 251 22-SEP-1998;
FEATURES
source Location/Qualifiers
1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 3.1e+02;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 96 AACGUCACUACU 109
DB 2 AACGTGACACTCAT 15

RESULT 498
LOCUS AR056273 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 477 from patent US 5837542.
ACCESSION AR056273
VERSION AR056273.1 GI:5981850
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwiggen,J., Sullivan,S. and Draper,K.G.
TITLE Intercellular adhesion molecule-1 (ICAM-1) ribozymes
JOURNAL Patent: US 5837542-A 477 17-NOV-1998;
FEATURES
source Location/Qualifiers
1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1355 CCACUCUACUUCUG 1368
DB 1 CCACGCTACTCTCG 14

RESULT 499
LOCUS AR056367 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 571 from patent US 5837542.
ACCESSION AR056367
VERSION AR056367.1 GI:5981944
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

REFERENCE 1 (bases 1 to 15)

Db 1 CACGAGCCCTCTCTGG 16

RESULT 490
LOCUS AR574808 16 bp DNA linear PAT 14-DEC-2004
DEFINITION Sequence 4136 from patent US 6770633.
ACCESSION AR574808
VERSION AR574808.1 GI:56575700
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE
AUTHORS 1 (bases 1 to 16)
TITLE Robbins,J.M. and Triltz,R.
JOURNAL Ribozyme therapy for the treatment of proliferative skin and eye diseases
Patent: US 6770633-A 4136 03-AUG-2004;
Immunosol, Inc.; San Diego, CA
FEATURES
source
1..16
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 3.2e+02;
Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 725 UGCCUGUCCACCAUUAU 740
Db 1 TGACGTCTCCATTAT 16

RESULT 491
LOCUS AR575038 16 bp DNA linear PAT 14-DEC-2004
DEFINITION Sequence 4366 from patent US 6770633.
ACCESSION AR575038
VERSION AR575038.1 GI:56575930
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE
AUTHORS 1 (bases 1 to 16)
TITLE Robbins,J.M. and Triltz,R.
JOURNAL Ribozyme therapy for the treatment of proliferative skin and eye diseases
Patent: US 6770633-A 4366 03-AUG-2004;
Immunosol, Inc.; San Diego, CA
FEATURES
source
1..16
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 3.2e+02;
Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 725 UGCCUGUCCACCAUUAU 740
Db 1 TGACGTCTCCATTAT 16

RESULT 492
LOCUS AR580871 16 bp DNA linear PAT 15-DEC-2004
DEFINITION Sequence 17 from patent US 6790616.
ACCESSION AR580871
VERSION AR580871.1 GI:56611541
KEYWORDS
SOURCE
ORGANISM Unknown.

Unclassified.
1 (bases 1 to 16)
REFERENCE
AUTHORS Moribe,T. and Kaneshige,T.
TITLE Method for typing of HLA class I alleles
JOURNAL Patent: US 6790616-A 17 14-SEP-2004;
Shionogi & Co., Ltd.; Osaka;
MOX;
FEATURES
source
1..16
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.2e+02;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 915 GAGGAGUAGGCCCGC 930
Db 1 GAGGATGTATGGCTGC 16

RESULT 493
LOCUS AR589528 16 bp DNA linear PAT 15-DEC-2004
DEFINITION Sequence 114 from patent US 6803187.
ACCESSION AR589528
VERSION AR589528.1 GI:56636836
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE
AUTHORS 1 (bases 1 to 16)
TITLE Method for detection of drug-selected mutations in the HIV protease gene
JOURNAL Patent: US 6803187-A 114 12-OCT-2004;
Imogenetics N.V.; Ghent;
EPX;
FEATURES
source
1..16
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 3.2e+02;
Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 685 CCCACCAUACUUAU 700
Db 16 CCCACTATATTTTG 1

RESULT 494
LOCUS AX007572 16 bp DNA linear PAT 06-SEP-2000
DEFINITION Sequence 114 from Patent W0967428.
ACCESSION AX007572
VERSION AX007572.1 GI:9995269
KEYWORDS
SOURCE
ORGANISM Aids-associated retrovirus
Aids-associated retrovirus
Viruses; Retro-transcribing viruses; Retroviridae.
REFERENCE
AUTHORS 1
TITLE Stuyver,L.
JOURNAL Method for detection of drug-selected mutations in the hiv protease gene
Patent: WO 967428-A 114 29-DEC-1999;
INNOGENETICS NV (BE); STUYVER LIEVEN (BE)
FEATURES
source
1..16
/organism="Aids-associated retrovirus"
/mol_type="unassigned DNA"
/db_xref="taxon:11966"

Db 16 TTCATACCCAAACAT 1

RESULT 485

LOCUS CS228123 16 bp DNA linear PAT 15-DEC-2005

DEFINITION Sequence 15 from Patent EP1602732.

ACCESSION CS228123

VERSION CS228123.1 GI:83695716

KEYWORDS

SOURCE .

ORGANISM synthetic construct

synthetic construct

other sequences; artificial sequences.

REFERENCE 1

AUTHORS Sidransky,D.

TITLE Nucleic acid mutation detection by analysis of sputum

JOURNAL Patent: EP 1602732-A 15 07-DEC-2005;

THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE (US)

FEATURES

Location/Qualifiers

1..16

/organism="synthetic construct"

/mol_type="unassigned DNA"

/db_xref="taxon:32630"

/note="Primer"

Query Match 0.7%; Score 12.8; DB 1; Length 16;

Best Local Similarity 75.0%; Pred. No. 3.2e+02;

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 45 CAUCAGCUCUCCUGG 60

Db 1 CACGAGCCCTCTCG 16

RESULT 486

LOCUS CS251086 16 bp DNA linear PAT 18-JAN-2006

DEFINITION Sequence 630 from Patent WO2005123945.

ACCESSION CS251086

VERSION CS251086.1 GI:85360898

KEYWORDS

SOURCE .

ORGANISM synthetic construct

synthetic construct

other sequences; artificial sequences.

REFERENCE 1

AUTHORS Lesche,R.

TITLE Epigenetic markers for the treatment of breast cancer

JOURNAL Patent: WO 2005123945-A 630 29-DEC-2005;

Epigenomics AG (DE)

FEATURES

Location/Qualifiers

1..16

/organism="synthetic construct"

/mol_type="unassigned DNA"

/db_xref="taxon:32630"

/note="DETECTION OLIGONUCLEOTIDE"

Query Match 0.7%; Score 12.8; DB 1; Length 16;

Best Local Similarity 68.8%; Pred. No. 3.2e+02;

Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Oy 1132 CUCAACUCCACCAAGU 1147

Db 16 CTAACCTCCACCACT 1

RESULT 487

LOCUS 126792 16 bp DNA linear PAT 07-OCT-1996

DEFINITION Sequence 15 from patent US 5561041.

ACCESSION 126792

VERSION 126792.1 GI:1606662

KEYWORDS

SOURCE .

Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 16)

AUTHORS Sidransky,D.

TITLE Nucleic acid mutation detection by analysis of sputum

JOURNAL Patent: US 5561041-A 15 01-OCT-1996;

Location/Qualifiers

1..16

/organism="unknown"

/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;

Best Local Similarity 75.0%; Pred. No. 3.2e+02;

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 45 CAUCAGCUCUCCUGG 60

Db 1 CACGAGCCCTCTCG 16

RESULT 488

LOCUS 141165 16 bp DNA linear PAT 13-MAY-1997

DEFINITION Sequence 21 from patent US 5624819.

ACCESSION 141165

VERSION 141165.1 GI:2081755

KEYWORDS

SOURCE .

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 16)

AUTHORS Skolnick,M.H., Cannon-Albright,L.A. and Kamb,A.

TITLE Germline mutations in the MTS gene

JOURNAL Patent: US 5624819-A 21 29-APR-1997;

Location/Qualifiers

1..16

/organism="unknown"

/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;

Best Local Similarity 81.2%; Pred. No. 3.2e+02;

Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy 1465 GCGGCCAGACCCUCA 1480

Db 16 GCTGGCAGACCTCA 1

RESULT 489

LOCUS 191533 16 bp DNA linear PAT 01-DEC-1998

DEFINITION Sequence 15 from patent US 5726019.

ACCESSION 191533

VERSION 191533.1 GI:3936003

KEYWORDS

SOURCE .

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 16)

AUTHORS Sidransky,D.

TITLE Analysis of sputum by amplification and detection of mutant nucleic acid sequences

JOURNAL Patent: US 5726019-A 15 10-MAR-1998;

Location/Qualifiers

1..16

/organism="unknown"

/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;

Best Local Similarity 75.0%; Pred. No. 3.2e+02;

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 45 CAUCAGCUCUCCUGG 60

QY 1208 GGAAGCCGACAGCU 1223
 Db 16 GGAAGACGACAACT 1

RESULT 481
 BD233018/c 16 bp DNA linear PAT 17-JUL-2003
 LOCUS BD233018 Method of detecting mutation selected by drug in HIV protease gene.
 DEFINITION BD233018
 VERSION BD233018.1 GI:33042788
 KEYWORDS JP 2002518065-A/114.
 SOURCE Aids-associated retrovirus
 ORGANISM Aids-associated retrovirus
 Viruses; Retro-transcribing viruses; Retroviridae.
 1 (bases 1 to 16)

REFERENCE
 AUTHORS Stuyver, L.
 TITLE Method of detecting mutation selected by drug in HIV protease gene
 JOURNAL Patent: JP 2002518065-A 114 25-JUN-2002;

COMMENT
 OS Aids-associated retrovirus
 PN JP 2002518065-A/114
 PD 25-JUN-2002
 PF 22-JUN-1999 JP 2000556068
 PR 24-JUN-1998 EP 98870143.9
 PI LIEVEN STUYVER
 PC C12N15/09,C12Q1/68,C12Q1/70,C12N15/00
 CC Method of detecting mutation selected by drug in HIV protease
 CC gene
 FH Key Location/Qualifiers
 FT source 1..16
 FEATURES
 source Location/Qualifiers
 1..16
 /organism="Aids-associated retrovirus"
 /mol_type="genomic DNA"
 /db_xref="taxon:11966"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 50.0%; Pred. No. 3.2e+02;
 Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 685 CCCACCAUUAUUUG 700
 Db 16 CCCACTATTATTG 1

RESULT 482
 CO858571 16 bp DNA linear PAT 31-AUG-2004
 LOCUS CO858571
 DEFINITION Sequence 33 from Patent WO2004069991.
 ACCESSION CO858571
 VERSION CO858571.1 GI:51852538
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.

REFERENCE
 1 Hansen, B., Thru, C.A., Petersen, K.D., Westergaard, M. and Wiesenbach, M.
 TITLE Oligomeric compounds for the modulation of survivin expression
 JOURNAL Patent: WO 2004069991-A 33 19-AUG-2004;
 Santaris Pharma A/S (DK)
 FEATURES
 source Location/Qualifiers
 1..16
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 31.2%; Pred. No. 3.2e+02;

Matches 5; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

QY 714 UGCUUUUUAUAGCCU 729
 Db 1 TGCCTTTATGTTCT 16

RESULT 483
 CS020466 16 bp DNA linear PAT 23-FEB-2005
 LOCUS CS020466
 DEFINITION Sequence 41 from Patent EP1506784.
 ACCESSION CS020466
 VERSION CS020466.1 GI:60221088
 KEYWORDS Mus musculus (house mouse)
 SOURCE Mus musculus
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Murioidea; Muridae; Murinae; Mus.

REFERENCE
 1 Franzoso, G., Desmarte, E., Zazzeroni, F., Papa, S. and Bubici, C.
 TITLE Identification of novel factors that block programmed cell death or apoptosis by targeting JNK
 JOURNAL Patent: EP 1506784-A 41 16-FEB-2005;
 University of Chicago (US)
 FEATURES
 source Location/Qualifiers
 1..16
 /organism="Mus musculus"
 /mol_type="unassigned DNA"
 /db_xref="taxon:10090"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.2e+02;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 956 GCUGAAACCCAGCUC 971
 Db 1 GCTGAAACCCGCGC 16

RESULT 484
 CS113935 16 bp DNA linear PAT 24-JUN-2005
 LOCUS CS113935
 DEFINITION Sequence 693 from Patent WO2005054517.
 ACCESSION CS113935
 VERSION CS113935.1 GI:68225480
 KEYWORDS synthetic construct
 SOURCE synthetic construct
 ORGANISM other sequences; artificial sequences.

REFERENCE
 1 Day, K.J., Cottrell, S., Distler, J., Morotti, A., Yamamura, S., Dekker, S., Ocamp, Y. and Devos, T.
 TITLE Methods and nucleic acids for the analysis of gene expression associated with the development of prostate cell proliferative disorders
 JOURNAL Patent: WO 2005054517-A 693 16-JUN-2005;
 Epigenomics AG (DE)
 FEATURES
 source Location/Qualifiers
 1..16
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="detection oligonucleotide for PEROXISOMAL MEMBRANE PROTEIN PEX14 (PEROXIN-14) (PEROXISOMAL MEMBRANE ANCHOR PROTEIN PEX14) (PTS1 RECEPTOR DOCKING PROTEIN)"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 68.8%; Pred. No. 3.2e+02;
 Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1558 UGCAUACCCAAACCU 1573

ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Kamb,A.
TITLE MTS2 gene
JOURNAL Patent: US 6180776-A 21 30-JAN-2001;
FEATURES
source
1. .16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCAGACCCUCA 1480
DB 16 GCTGCCAGACCTCA 1

RESULT 477
ARI44931/c 16 bp DNA linear PAT 08-AUG-2001
LOCUS
DEFINITION Sequence 21 from patent US 6210949.
ACCESSION ARI44931
VERSION ARI44931.1 GI:15106798
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 16)
AUTHORS Stone,S., Jiang,P. and Kamb,A.
TITLE Mouse MTS2 gene
JOURNAL Patent: US 6210949-A 21 03-APR-2001;
FEATURES
source
1. .16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCAGACCCUCA 1480
DB 16 GCTGCCAGACCTCA 1

RESULT 478
ARI45932/c 16 bp DNA linear PAT 08-AUG-2001
LOCUS
DEFINITION Sequence 21 from patent US 6218146.
ACCESSION ARI45932
VERSION ARI45932.1 GI:15109121
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 16)
AUTHORS Kamb,A.
TITLE MTS2 gene
JOURNAL Patent: US 6218146-A 21 17-APR-2001;
FEATURES
source
1. .16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCAGACCCUCA 1480
DB 16 GCTGCCAGACCTCA 1

DB 16 GCTGCCAGACCTCA 1

RESULT 479
AX927955 16 bp DNA linear PAT 19-DEC-2003
LOCUS
DEFINITION Sequence 41 from Patent WO03085110.
ACCESSION AX927955
VERSION AX927955.1 GI:40250840
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Thirne,C.A., h G.A.M. and Kristjansen,P.E.
TITLE Oligomeric compounds for the modulation hlf-1alpha expression
JOURNAL Patent: WO 03085110-A 41 16-OCT-2003;
Cureon A/S (DK)
FEATURES
source
1. .16
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence:antisense oligonucleotide to human HIF-1a"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 62.5%; Pred. No. 3.2e+02;
Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1016 ACAUGAUGCUGCGC 1031
DB 1 AAAATGATGCTACTGC 16

RESULT 480
BD009273/c 16 bp DNA linear PAT 31-JAN-2002
LOCUS
DEFINITION Hepatitis B inhibitors.
BD009273
ACCESSION BD009273.1 GI:18637646
VERSION JP 2001503750-A/1.
KEYWORDS JP 2001503750-A/1.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE 1 (bases 1 to 16)
AUTHORS Murray,K. and Dyson,M.R.
TITLE Hepatitis B inhibitors
JOURNAL Patent: JP 2001503750-A 1 21-MAR-2001;
BIOGEN INC
COMMENT OS Homo sapiens (human)
PN JP 2001503750-A/1
PD 21-MAR-2001
PF 31-OCT-1997 JP 1998520812
PR 31-OCT-1996 US 60/030534
PI KENNETH MORRAY,MICHAEL RICHARD DYSON
PC C07K14/02,C07K7/04
CC
FH Key
FT source
1. .16
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

LOCUS AR062791 16 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 21 from patent US 5843756.
ACCESSION AR062791
VERSION AR062791.1 GI:5990482
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Stone,S., Jiang,P. and Kamb,A.
TITLE Mouse MTS1 gene
JOURNAL Patent: US 5843756-A 21 01-DEC-1998;
FEATURES Location/Qualifiers
source 1..16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCTCA 1480
Db 16 GCTGCCAGACCTCA 1

RESULT 472
LOCUS AR087869 16 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 21 from patent US 5989815.
ACCESSION AR087869
VERSION AR087869.1 GI:10014632
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Skolnick,M.H., Cannon-Albright,L.A. and Kamb,A.
TITLE Methods for detecting predisposition to cancer at the MTS gene
JOURNAL Patent: US 5989815-A 21 23-NOV-1999;
FEATURES Location/Qualifiers
source 1..16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCTCA 1480
Db 16 GCTGCCAGACCTCA 1

RESULT 473
LOCUS AR091339 16 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 21 from patent US 5994095.
ACCESSION AR091339
VERSION AR091339.1 GI:10018094
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Kamb,A.
TITLE MTS2 gene
JOURNAL Patent: US 5994095-A 21 30-NOV-1999;
FEATURES Location/Qualifiers
source 1..16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCTCA 1480
Db 16 GCTGCCAGACCTCA 1

RESULT 474
LOCUS AR118045 16 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 21 from patent US 6140473.
ACCESSION AR118045
VERSION AR118045.1 GI:14098951
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Kamb,A.
TITLE Antibodies specific for MTS2 Polypeptide
JOURNAL Patent: US 6140473-A 21 31-OCT-2000;
FEATURES Location/Qualifiers
source 1..16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCTCA 1480
Db 16 GCTGCCAGACCTCA 1

RESULT 475
LOCUS AR119026 16 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 152 from patent US 6150092.
ACCESSION AR119026
VERSION AR119026.1 GI:14100936
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Uchida,K., Uchida,T., Tanaka,Y., Matsuda,Y. and Kondo,S.
TITLE Antisense nucleic acid compound targeted to VEGF
JOURNAL Patent: US 6150092-A 152 21-NOV-2000;
FEATURES Location/Qualifiers
source 1..16
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 68.8%; Pred. No. 3.2e+02;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 674 UCCUCAGAGCCAC 689
Db 1 TCCTCAGTGGCACAC 16

RESULT 476
LOCUS AR127764 16 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 21 from patent US 6180776.
ACCESSION AR127764
VERSION AR127764.1 GI:14114359
KEYWORDS
SOURCE Unknown.

KEYWORDS	SOURCE	ORGANISM	REFERENCE
unidentified	unidentified	unidentified	1
unclassified sequences.			
			Stinchcomb, D. T., Dudycz, L. W., Chowirra, B., Grimm, S., Dizenzo, A.,

TITLE	Method and reagent for inhibiting the expression of disease related genes
JOURNAL	Patent: EP 1260586-A 4390 27-NOV-2002;
FEATURES	RIBOZYME PHARMACEUTICALS, INC. (US) location/Qualifiers

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/organism="unidentified"  
/mol_type="unassigned RNA"  
/db_xref="taxon:32644"
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Query Match	0.7%	Score 13;	DB 1;	Length 15;
Best Local Similarity	92.3%	Pred. No. 2.6e+02;		
Matches 12; Conservative	1;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1 2 3 1	CAGAGAGCGUGG	1 2 4 3
			:
Db	1 3	CAGAGAGCGTGG	1

RESULT	467		
LOCUS	AR435971/c		
DEFINITION	Sequence 230 from patent US 6656731.	16 bp	RNA
ACCESSION	AR435971		linear
VERSION	AR435971.1	GI:40199055	
KEYWORDS			
SOURCE	Unknown.		
ORGANISM	Unknown.		
			PAT 18-DEC-2003

REFERENCE	AUTHORS	TITLE	JOURNAL
1 (bases 1 to 16)	Eckstein, P., Ludwig, J. and Beigelman, I.	Nucleic acid catalysts with endonuclease activity	Patent: US 6656731-A 230 02-DEC-2003;
	Max Planck Gesellschaft zur Förderung der Wissenschaften E.V. and		Sina Therapeutics; Munich;
	DEx;		

FEATURES	Location/Qualifiers
source	1. .16
	/organism="unknown"
	/mol_type="unassigned RNA"

Query Match	0.7%	Score 13;	DB 1;	Length 16;
Best Local Similarity	92.3%	Pred. No. 3e+02;		
Matches 12;	Conservative 1;	Mismatches 0;	Indels 0;	Gaps 0;

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QY      990 CCACAGCAGCAGU 1002
          |||||
Db      14  CCACAGCAGCAGT  2

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RESULT	468
LOCUS	AR001331/c
DEFINITION	Sequence 21 from patent US 5739027.
ACCESSION	AR001331
VERSION	AR001331.1 GI:3963398
KEYWORDS	.
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 16)
TITLE	Kamb,A. MSI1.beta. gene

JOURNAL	Patent: US 5739027-A 21 14-APR-1998,
FEATURES	Location/Qualifiers
source	1..16

Query Match	0.7%	Score 12.8;	DB 1;	Length 16;
Best Local Similarity	81.2%	Pred. No. 3.2e+02;		
Matches 13; Conservative	1;	Mismatches 2;	Indels 0;	Gaps 0;

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QY      1465 GCGGCCAGACCTUCA 1480
          |||||:||
Db      16 GCTGGCAGACCTCA 1

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RESULT 469			
AR037511/C			
LOCUS	AR037511	16 bp	DNA
DEFINITION	Sequence 21 from patent US 5801236.	linear	PAT 29-SEP-1999

SOURCE	Unknown.
ORGANISM	Unknown.

REFERENCE 1 (bases 1 to 16)

TITLE Probes for MTS1 gene and polynucleotides encoding mutant MTS1 genes
JOURNAL Patent: US 5801236-A 21 01-SEP-1998;

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/organism="unknown"
/mol_type="unassigned DNA"

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Query Match	0.7%	Score 12.8;	DB 1;	length 16;
Best Local Similarity	81.2%;	Pred. No. 3.2e+02;		
Matches 13;	Conservative 1;	Mismatches 2;	Indels 0;	Gaps 0;

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QY      1465 GCGGCCAGACCCUCA 1480
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Db      16 GCTGCCAGACCTCA 1

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RESULT 470			
AR054083			
LOCUS	AR054083	16 bp	DNA
DEFINITION	Sequence 10 from patent US 5634440.		linear
			PAT 29-SEP-1999

VERSION	AR054083.1	GI:5978945
KEYWORDS	.	
SOURCE	Unknown.	

Unclassified

Unclassified.

REFERENCE	1 (bases 1 to 16)
AUTHORS	Goldenberg, T. and Tritz, R.
TITLE	Ribozyme therapy for the inhibition of restenosis
JOURNAL	Patent: US 5834440-A 10.10.NOV-1998;
FEATURES	Location/Qualifiers

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/organism="unknown"
/mol_type="unassigned DNA"

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Query Match	0.7%	Score 12.8;	DB 1;	Length 16;
Best Local Similarity	50.0%	Pred. No. 3.2e+02;		
Matches	8;	Conservative	6;	Mismatches 2;
			Indels	0;
			Gaps	0;

Qy 725 UGCCUGUACCAUUAU 740
:|:|:|:|:|:
Db 1 TGACTGTCTCATTA 16

RESULT 471
AR062791/C

QY 861 UCGAGCUCGAGC 873
Db 14 TCGAAGCTGCAGC 2

RESULT 462
AR397716/c
LOCUS AR397716 15 bp RNA linear PAT 18-DEC-2003
DEFINITION Sequence 97 from patent US 6617438.
ACCESSION AR397716
VERSION AR397716.1 GI:40134919
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Beligelman, L., Burgin, A.B., Beaudry, A., Karpeisky, A., Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
TITLE Oligoribonucleotides with enzymatic activity
JOURNAL Patent: US 6617438-A 97 09-SEP-2003;
Sirma Therapeutics, Inc.; Boulder, CO
FEATURES
source
1.15
/organism="unknown"
/mol_type="unassigned RNA"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 2.6e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 861 UCGAGCUCGAGC 873
Db 14 TCGAAGCTGCAGC 2

RESULT 463
AX633249/c
LOCUS AX633249 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 388 from Patent EP1260586.
ACCESSION AX633249
VERSION AX633249.1 GI:28468863
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 unclassified sequences.
AUTHORS Stinchcomb, D.T., Dudycz, L.W., Chowrira, B., Grimm, S., Drenzo, A., Karpeisky, A., Draper, K.G., Kisich, K., Matulic-Adamic, J., Mcswiggen, J.A., Modak, A., Pavco, P., Beligelman, L., Sullivan, S.M., Sweedler, D., Thompson, J.D., Tracz, D., Usman, N., Wincott, F.E. and Woolf, T.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 388 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES
source
1.15
Location/Qualifiers
/organism="unidentified"
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Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUACGAGGCC 518
Db 15 CCATCAGAGGCC 3

RESULT 464
AX633318/c
LOCUS AX633318 15 bp RNA linear PAT 21-FEB-2003

DEFINITION Sequence 457 from Patent EP1260586.
ACCESSION AX633318
VERSION AX633318.1 GI:28468932
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 unclassified sequences.
AUTHORS Stinchcomb, D.T., Dudycz, L.W., Chowrira, B., Grimm, S., Drenzo, A., Karpeisky, A., Draper, K.G., Kisich, K., Matulic-Adamic, J., Mcswiggen, J.A., Modak, A., Pavco, P., Beligelman, L., Sullivan, S.M., Sweedler, D., Thompson, J.D., Tracz, D., Usman, N., Wincott, F.E. and Woolf, T.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 457 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES
source
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/organism="unidentified"
/mol_type="unassigned RNA"
/db_xref="taxon:32644"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUACGAGGCC 518
Db 15 CCATCAGAGGCC 3

RESULT 465
AX636734/c
LOCUS AX636734 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 3873 from Patent EP1260586.
ACCESSION AX636734
VERSION AX636734.1 GI:28472348
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 unclassified sequences.
AUTHORS Stinchcomb, D.T., Dudycz, L.W., Chowrira, B., Grimm, S., Drenzo, A., Karpeisky, A., Draper, K.G., Kisich, K., Matulic-Adamic, J., Mcswiggen, J.A., Modak, A., Pavco, P., Beligelman, L., Sullivan, S.M., Sweedler, D., Thompson, J.D., Tracz, D., Usman, N., Wincott, F.E. and Woolf, T.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 3873 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES
source
1.15
Location/Qualifiers
/organism="unidentified"
/mol_type="unassigned RNA"
/db_xref="taxon:32644"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1231 CAGAAGCGUGG 1243
Db 13 CAGAAGCGCTGG 1

RESULT 466
AX637251/c
LOCUS AX637251 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 4390 from Patent EP1260586.
ACCESSION AX637251
VERSION AX637251.1 GI:28472865

TITLE Woolf,T.
JOURNAL Method for purifying chemically modified RNA
Patent: EP 1502950-A 388 02-FEB-2005;
Ribozyme Pharmaceuticals, Inc. (US)

FEATURES

source 1. .15
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUACGAGGCC 518
|||:|||||
15 CCATCAGAGGCC 3

Db 15 CCATCAGAGGCC 3

RESULT 458
CS002429/c CS002429 15 bp DNA linear PAT 07-FEB-2005

DEFINITION Sequence 457 from Patent EP1502950.

ACCESSION CS002429

VERSION CS002429.1 GI:58737784

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

1
Stinchcomb,D.T., Chowrira,B., Drenzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpelsky,A., Kisch,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
Method for purifying chemically modified RNA
Patent: EP 1502950-A 457 02-FEB-2005;
Ribozyme Pharmaceuticals, Inc. (US)

TITLE

JOURNAL

FEATURES

source 1. .15
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUACGAGGCC 518
|||:|||||
15 CCATCAGAGGCC 3

Db 15 CCATCAGAGGCC 3

RESULT 459
CS005845/c CS005845 15 bp DNA linear PAT 07-FEB-2005

DEFINITION Sequence 3873 from Patent EP1502950.

ACCESSION CS005845

VERSION CS005845.1 GI:58741200

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

1
Stinchcomb,D.T., Chowrira,B., Drenzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpelsky,A., Kisch,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
Method for purifying chemically modified RNA
Patent: EP 1502950-A 3873 02-FEB-2005;
Ribozyme Pharmaceuticals, Inc. (US)

TITLE

JOURNAL

FEATURES

source 1. .15
/organism="unassigned RNA"
/mol_type="unassigned RNA"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 2.6e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

source

1. .15
/organism="unidentified"
/mol_type="unassigned DNA"
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Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1231 CAGAGAGCGUGG 1243
|||||:|||||
13 CAGAGAGCGTGG 1

Db 13 CAGAGAGCGTGG 1

RESULT 460
CS006362/c CS006362 15 bp DNA linear PAT 07-FEB-2005

DEFINITION Sequence 4390 from Patent EP1502950.

ACCESSION CS006362

VERSION CS006362.1 GI:58741717

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

1
Stinchcomb,D.T., Chowrira,B., Drenzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpelsky,A., Kisch,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
Method for purifying chemically modified RNA
Patent: EP 1502950-A 4390 02-FEB-2005;
Ribozyme Pharmaceuticals, Inc. (US)

TITLE

JOURNAL

FEATURES

source 1. .15
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1231 CAGAGAGCGUGG 1243
|||||:|||||
13 CAGAGAGCGTGG 1

Db 13 CAGAGAGCGTGG 1

RESULT 461
AR285725/c AR285725 15 bp RNA linear PAT 10-APR-2003

DEFINITION Sequence 97 from patent US 6528640.

ACCESSION AR285725

VERSION AR285725.1 GI:29723319

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

1 (bases 1 to 15)
Beigelman,L., Burgin,A., Beaudry,A., Karpelsky,A.,
Matulic-Adamic,J., Sweedler,D. and Zinnen,S.
Synthetic ribonucleic acids with RNase activity
Patent: US 6528640-A 97 04-MAR-2003;
Ribozyme Pharmaceuticals, Incorporated; Boulder, CO

TITLE

JOURNAL

FEATURES

source 1. .15
/organism="unknown"
/mol_type="unassigned RNA"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 2.6e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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source          1. .15
                /organism="unknown"
                /mol_type="unassigned DNA"

Query Match
Best Local Similarity  0.7%; Score 13; DB 1; Length 15;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1231 CAGAGAGCGGCG 1243
DB 13 CAGAGAGCGGTGG 1

RESULT 453
LOCUS AR056190 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 394 from patent US 5837542.
ACCESSION AR056190
VERSION AR056190.1 GI:5981767
KEYWORDS
SOURCE Unknown.
ORGANISM Unidentified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwigen,J., Sullivan,S. and
          Draper,K.G.
TITLE Intercellular adhesion molecule-1 (ICAM-1) ribozymes
JOURNAL Patent: US 5837542-A 394 17-NOV-1998;
FEATURES
source
    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
Best Local Similarity  0.7%; Score 13; DB 1; Length 15;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUCACGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 454
LOCUS AR056412 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 616 from patent US 5837542.
ACCESSION AR056412
VERSION AR056412.1 GI:5981989
KEYWORDS
SOURCE Unknown.
ORGANISM Unidentified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwigen,J., Sullivan,S. and
          Draper,K.G.
TITLE Intercellular adhesion molecule-1 (ICAM-1) ribozymes
JOURNAL Patent: US 5837542-A 616 17-NOV-1998;
FEATURES
source
    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
Best Local Similarity  0.7%; Score 13; DB 1; Length 15;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUCACGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 455
LOCUS AR113948 15 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 394 from patent US 6132967.
ACCESSION AR113948
VERSION AR113948.1 GI:14094270
KEYWORDS
SOURCE Unknown.
ORGANISM Unidentified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwigen,J., Sullivan,S. and
          Draper,K.G.
TITLE Ribozyme treatment of diseases or conditions related to levels of
          intercellular adhesion molecule-1 (ICAM-1)
JOURNAL Patent: US 6132967-A 394 17-OCT-2000;
FEATURES
source
    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
Best Local Similarity  0.7%; Score 13; DB 1; Length 15;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUCACGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 456
LOCUS AR114170 15 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 616 from patent US 6132967.
ACCESSION AR114170
VERSION AR114170.1 GI:14094492
KEYWORDS
SOURCE Unknown.
ORGANISM Unidentified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwigen,J., Sullivan,S. and
          Draper,K.G.
TITLE Ribozyme treatment of diseases or conditions related to levels of
          intercellular adhesion molecule-1 (ICAM-1)
JOURNAL Patent: US 6132967-A 616 17-OCT-2000;
FEATURES
source
    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
Best Local Similarity  0.7%; Score 13; DB 1; Length 15;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUCACGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 457
LOCUS CS002360 15 bp DNA linear PAT 07-FEB-2005
DEFINITION Sequence 388 from Patent EP1502950.
ACCESSION CS002360
VERSION CS002360.1 GI:58737715
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1
AUTHORS Stinchcomb,D.T., Chowrira,B., Dizenzo,A., Dreper,K.G., Dudycz,L.W.,
          Grimm,S., Karpelisky,A., Kisich,K., Matulic-Adamic,J.,
          McSwigen,J.A., Modak,A., Payco,P., Beigelman,L., Sullivan,S.M.,
          Swedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.B. and

```

Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

QY 204 GGUUCUACGCUUUCU 221
Db 28 GGTCGTTCGCTTCTT 11

RESULT 448
AR591149

LOCUS AR591149 37 bp DNA linear PAT 15-DEC-2004
DEFINITION Sequence 280 from patent US 6806054.
ACCESSION AR591149
VERSION AR591149.1 GI:56638958
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 37)
AUTHORS Lehmann-Brinnsma,K., Liaw,C.W. and Lin,I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: US 6806054-A 280 19-OCT-2004;
Arema Pharmaceuticals, Inc.; San Diego, CA
FEATURES
source 1..37
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.7%; Score 13.2; DB 1; Length 37;
Best Local Similarity 38.9%; Pred. No. 5.3e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

QY 204 GGUUCUACGCUUUCU 221
Db 10 GGTCGTTCGCTTCTT 27

RESULT 449
AX280656/c

LOCUS AX280656 37 bp DNA linear PAT 02-NOV-2001
DEFINITION Sequence 279 from Patent WO0177172.
ACCESSION AX280656
VERSION AX280656.1 GI:16608031
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarctontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1
AUTHORS Lehmann-Brinnsma,K., Liaw,C.W. and Lin,I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: WO 0177172-A 279 18-OCT-2001;
Arema Pharmaceuticals, Inc. (US)
FEATURES
source 1..37
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.7%; Score 13.2; DB 1; Length 37;
Best Local Similarity 38.9%; Pred. No. 5.3e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

QY 204 GGUUCUACGCUUUCU 221
Db 28 GGTCGTTCGCTTCTT 11

RESULT 450
AX280657

LOCUS AX280657 37 bp DNA linear PAT 02-NOV-2001

DEFINITION Sequence 280 from Patent WO0177172.
ACCESSION AX280657
VERSION AX280657.1 GI:16608032
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarctontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1
AUTHORS Lehmann-Brinnsma,K., Liaw,C.W. and Lin,I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: WO 0177172-A 280 18-OCT-2001;
Arema Pharmaceuticals, Inc. (US)
FEATURES
source 1..37
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.7%; Score 13.2; DB 1; Length 37;
Best Local Similarity 38.9%; Pred. No. 5.3e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

QY 204 GGUUCUACGCUUUCU 221
Db 10 GGTCGTTCGCTTCTT 27

RESULT 451
AR041251/c

LOCUS AR041251 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 41 from patent US 5811300.
ACCESSION AR041251
VERSION AR041251.1 GI:5961747
KEYWORDS
SOURCE
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Sullivan,S., Draper,K., Kisch,K., Stinchcomb,D.T. and McSwiggen,J.
TITLE TNF- α alpha. ribozymes
JOURNAL Patent: US 5811300-A 41 22-SEP-1998;
Location/Qualifiers
FEATURES
source 1..15
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 2.6e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1231 CAGAGAGCGUGG 1243
Db 13 CAGAGAGCGTGC 1

RESULT 452
AR041763/c

LOCUS AR041763 15 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 553 from patent US 5811300.
ACCESSION AR041763
VERSION AR041763.1 GI:5962259
KEYWORDS
SOURCE
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Sullivan,S., Draper,K., Kisch,K., Stinchcomb,D.T. and McSwiggen,J.
TITLE TNF- α alpha. ribozymes
JOURNAL Patent: US 5811300-A 553 22-SEP-1998;
Location/Qualifiers
FEATURES

FEATURES
source
Location/Qualifiers
1. .15
/organism="unidentified"
/mol_type="genomic RNA"
/db_xref="taxon:32644"

Query Match
Best Local Similarity 73.3%; Score 13.4; DB 1; Length 15;
Pred. No. 2.4e+02;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 645 UGUGCCUGCGGAGGA 659
1 TGTGACTCCGGGAGA 15

Db 1 TGTGACTCCGGGAGA 15

RESULT 444
BD104552/c
LOCUS BD104552 16 bp DNA linear PAT 27-AUG-2002
DEFINITION Kit and method for determining HLA type.
ACCESSION BD104552
VERSION BD104552.1 GI:22650126
KEYWORDS WO 0192572-A/656.
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 16)
AUTHORS Inoko,H., Kagiyama,T., Ichihara,T., Matsumura,Y., Moriya,S. and Nishida,M.
TITLE Kit and method for determining HLA type
JOURNAL Patent: WO 0192572-A 656 06-DEC-2001;
NISHIMBO INDUSTRIES, INC., SYSTEM RESEARCH INC., HIDEOTOSHI INOKO, TAEKO KAGIYA, TATSUO ICHIHARA, YOSHIOYUKI MATSUMURA, SHOGO MORIYA, MICHIO NISHIDA
COMMENT OS Artificial Sequence
PN WO 0192572-A/656
PD 06-DEC-2001
PR 01-JUN-2001 WO 2001JP004662
PI 01-JUN-2000 JP 00P 164798
PI HIDEOTOSHI INOKO, TAEKO KAGIYA, TATSUO ICHIHARA, YOSHIOYUKI MATSUMURA, SHOGO MORIYA, MICHIO NISHIDA
PI SHOGO MORIYA, MICHIO NISHIDA
PC C12Q1/68, C12M1/00, C12N15/09, G01N33/53
CC Description of Artificial Sequence: capture
FH Key Location/Qualifiers
FT source 1. .16
FEATURES
source 1. .16
Location/Qualifiers
1. .16
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match
Best Local Similarity 66.7%; Score 13.4; DB 1; Length 16;
Pred. No. 2.7e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 49 AGCUCUCCUGGAGUA 63
16 ACCTCCTCCTGTTA 2

Db 16 ACCTCCTCCTGTTA 2

RESULT 445
AR241772
LOCUS AR241772 16 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 60 from patent US 6472154.
ACCESSION AR241772
VERSION AR241772.1 GI:27287584
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 16)
Unclassified.

AUTHORS Garner,H.R., Wren,J.D., Minna,J.D. and Fondon,J.W. III.
TITLE Polymorphic repeats in human genes
JOURNAL Patent: US 6472154-A 60 29-OCT-2002;
Board of Regents, The University of Texas System, Austin, TX
FEATURES
source 1. .16
Location/Qualifiers
1. .16
/organism="unknown"
/mol_type="genomic DNA"

Query Match
Best Local Similarity 93.3%; Score 13.4; DB 1; Length 16;
Pred. No. 2.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 815 GGACAGAGGCGAGGA 829
1 GGAGAGAGGCGAGGA 15

Db 1 GGAGAGAGGCGAGGA 15

RESULT 446
AX756484/c
LOCUS AX756484 16 bp DNA linear PAT 25-JUN-2003
DEFINITION Sequence 7 from Patent EP1312614.
ACCESSION AX756484
VERSION AX756484.1 GI:32251105
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Escary,J.L.
TITLE Polynucleotides and polypeptides of the gcp-2 gene
JOURNAL Patent: EP 1312614-A 7 21-MAY-2003;
Genodyssee (FR)
FEATURES
source 1. .16
Location/Qualifiers
1. .16
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match
Best Local Similarity 60.0%; Score 13.4; DB 1; Length 16;
Pred. No. 2.7e+02;
Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 592 GUCCUUGGCGUCCU 606
16 GTTCCTCGGCTCCT 2

Db 16 GTTCCTCGGCTCCT 2

RESULT 447
AR591148/c
LOCUS AR591148 37 bp DNA linear PAT 15-DEC-2004
DEFINITION Sequence 279 from patent US 6806054.
ACCESSION AR591148
VERSION AR591148.1 GI:56638957
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 37)
AUTHORS Lehmann-Brulsma,K., Liaw,C.W. and Lin,I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: US 6806054-A 279 19-OCT-2004;
Arena Pharmaceuticals, Inc., San Diego, CA
FEATURES
source 1. .37
Location/Qualifiers
1. .37
/organism="unknown"
/mol_type="genomic DNA"

Query Match
Best Local Similarity 38.9%; Score 13.2; DB 1; Length 37;
Pred. No. 5.3e+02;

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Db      17 TCAGTACTCAGTGATC 1
      :|||::|:||||:|
RESULT 440
AX762401      17 bp      DNA      linear      PAT 25-JUN-2003
LOCUS      AX762401
DEFINITION      Sequence 5722 from Patent WO03040369.
ACCESSION      AX762401
VERSION      AX762401.1 GI:32257017
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE
AUTHORS      Telerman,A., Anson,R. and Tuijnder,M.
TITLE      Sequences involved in tumoral suppression, tumoral reversion,
            apoptosis and/or viral resistance phenomena and their use as
            medicines
JOURNAL      Patent: WO 03040369-A 5722 15-MAY-2003;
FEATURES
source      1. .17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1449 GGUCAAGGAGGAAGAAG 1465
      :|:|||||:|||||
Db      1 GATCAAGAGAGAGATAG 17

RESULT 441
HS13BE11      17 bp      DNA      linear      PRI 07-MAY-1996
LOCUS      HS13BE11
DEFINITION      H.sapiens primer 1 of STS to left arm of ICI YAC 13BE1.
ACCESSION      X87702
VERSION      X87702.1 GI:971423
KEYWORDS      primer.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE
AUTHORS      Hoggar,N., Hey,Y., Brintnell,B., James,L., Jones,D., Mitchell,E.,
            Weissenbach,J. and Varley,J.M.
TITLE      Identification and cloning in yeast artificial chromosomes of a
            region of elevated loss of heterozygosity on chromosome 1p31.1 in
            human breast cancer
JOURNAL      Genomics 30 (2), 233-243 (1995)
PUBMED      8586422
REFERENCES
2 (bases 1 to 17)
Hoggar,N.
Direct Submission
Submitted (31-MAY-1995) N. Hoggar, Paterson Institute for Cancer
Research, Cancer Genetics, Wilmslow Road, Manchester, England., M20
9BX, UK
FEATURES
source      Location/Qualifiers
            1. .17
            /organism="Homo sapiens"
            /mol_type="genomic DNA"
            /db_xref="taxon:9606"
            /chromosome="1"
            /map="1p31"
            1. .17
            /note="primer 1 of STS to left arm of ICI YAC 13BE1"
misc_feature

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Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 2.8e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      129 UCGAGCAGCUGGCAUUV 145
      :|:|||||:|||||
Db      1 TGGTGCAGCTGGCAATT 17

RESULT 442
ARI31712/c      15 bp      DNA      linear      PAT 16-MAY-2001
LOCUS      ARI31712
DEFINITION      Sequence 137 from patent US 6194150.
ACCESSION      ARI31712
VERSION      ARI31712.1 GI:14120615
KEYWORDS
SOURCE      Unknown.
ORGANISM      Unknown.
REFERENCE
AUTHORS      1 (bases 1 to 15)
TITLE      Scinichomb,D.T., Jarvis,T. and McSwigen,J.
JOURNAL      Nucleic acid based inhibition of CD40
            Patent: US 6194150-A 137 27-FEB-2001;
FEATURES
source      1. .15
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match      0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 2.4e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      486 CAGCTTUGACAGATA 500
      |||:::|||||:|
Db      15 CAGCTTGCAGCTGATA 1

RESULT 443
BD208668      15 bp      RNA      linear      PAT 17-JUN-2003
LOCUS      BD208668
DEFINITION      Enzymatic nucleic acid treatment of diseases or conditions related
            to hepatitis C virus infection.
ACCESSION      BD208668
VERSION      BD208668.1 GI:33018438
KEYWORDS      JP 2002512791-A/2258.
SOURCE      unidentified
ORGANISM      unidentified
            unclassified sequences.
REFERENCE
AUTHORS      1 (bases 1 to 15)
TITLE      Blatt,L., Mcswigen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
            Enzymatic nucleic acid treatment of diseases or conditions related
            to hepatitis C virus infection
JOURNAL      Patent: JP 2002512791-A 2258 08-MAY-2002;
COMMENT      RIBOZYME PHARMACEUTICALS INC
            OS Hepatitis virus (hepatitis C virus)
            PN JP 2002512791-A/2258
            PD 08-MAY-2002
            PF 26-APR-1999 JP 2000545991
            PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR
            25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
            LAWRENCE BLATT,JAMES A MCSWIGEN,ELISABETH ROBERTS,PAMELA A PI
            PAVCO,
            PI DENNIS MACEJAK
            PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
            PC A61K37/66,
            PC C12N15/00
            CC Enzymatic nucleic acid treatment of diseases or conditions
            related to
            CC hepatitis C virus infection.
            FH Key
            FT source
            FT 1. .15
            /organism='Hepatitis virus (hepatitis C FT

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ORGANISM Mus musculus
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1
AUTHORS Telerman, A., Amson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025176-A 5231 27-MAR-2003;
FEATURES Molecular Engines Laboratories (FR)
source location/Qualifiers
1. .17
/organism="Mus musculus"
/mol_type="unassigned DNA"
/db_xref="taxon:10090"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 2.8e+02;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1060 GAGGAGGACAUUGGCTC 1076
DB 17 GAAGAGGACATGTGATC 1

RESULT 432
AX729874/c 17 bp DNA linear PAT 08-MAY-2003
LOCUS Sequence 1508 from Patent WO03025175.
DEFINITION AX729874
ACCESSION AX729874
VERSION AX729874.1 GI:30509217
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Telerman, A., Amson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 1508 27-MAR-2003;
FEATURES Molecular Engines Laboratories (FR)
source location/Qualifiers
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 955 AGCTUGGAACCCAGC 971
DB 17 AGCTGAAAACCCAGATC 1

RESULT 433
AX735559 17 bp DNA linear PAT 08-MAY-2003
LOCUS Sequence 1149 from Patent WO03025177.
DEFINITION AX735559
ACCESSION AX735559
VERSION AX735559.1 GI:30514836
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
JOURNAL

AUTHORS Telerman, A., Amson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 1149 27-MAR-2003;
FEATURES Molecular Engines Laboratories (FR)
source location/Qualifiers
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1449 GGUCAAGAGAGAGAG 1465
DB 1 GATCAAGTAGAGAGAG 17

RESULT 434
AX736610/c 17 bp DNA linear PAT 08-MAY-2003
LOCUS Sequence 2200 from Patent WO03025177.
DEFINITION AX736610
ACCESSION AX736610
VERSION AX736610.1 GI:30515898
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Telerman, A., Amson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 2200 27-MAR-2003;
FEATURES Molecular Engines Laboratories (FR)
source location/Qualifiers
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 32 CUUGUUUCCAAACAU 48
DB 17 CTTTGTTTCGAGATC 1

RESULT 435
AX737723/c 17 bp DNA linear PAT 08-MAY-2003
LOCUS Sequence 3313 from Patent WO03025177.
DEFINITION AX737723
ACCESSION AX737723
VERSION AX737723.1 GI:30517011
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Telerman, A., Amson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 3313 27-MAR-2003;


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REFERENCE      1 Homidae; Homo.
AUTHORS        1 Gu,Y. and Nguyen,C.T.
TITLE          Human lcc1-domain containing protein
JOURNAL        Patent: EP 1262488-A 857 04-DEC-2002;
               Aeomica, Inc. (US)
FEATURES
source         1.17
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match    0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 2.8e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy            1661 CUUCAAGAGCUCGUCG 1677
Db            1 CTTGAGAGATGATGCTG 17

RESULT 423
LOCUS          AX616051 17 bp DNA linear PAT 20-FEB-2003
DEFINITION    Sequence 858 from Patent EP1262488.
ACCESSION     AX616051
VERSION       AX616051.1 GI:28447097
KEYWORDS
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
               Homidae; Homo.
REFERENCE      1
AUTHORS        Gu,Y. and Nguyen,C.T.
TITLE          Human lcc1-domain containing protein
JOURNAL        Patent: EP 1262488-A 858 04-DEC-2002;
               Aeomica, Inc. (US)
FEATURES
source         1.17
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match    0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 2.8e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy            1662 UUUCAAGAGCUCGUCG 1678
Db            1 TTGAGAGATGATGCTG 17

RESULT 424
LOCUS          AX616052 17 bp DNA linear PAT 20-FEB-2003
DEFINITION    Sequence 859 from Patent EP1262488.
ACCESSION     AX616052
VERSION       AX616052.1 GI:28447098
KEYWORDS
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
               Homidae; Homo.
REFERENCE      1
AUTHORS        Gu,Y. and Nguyen,C.T.
TITLE          Human lcc1-domain containing protein
JOURNAL        Patent: EP 1262488-A 859 04-DEC-2002;
               Aeomica, Inc. (US)
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source         1.17
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Query Match    0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 2.8e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy            1663 UUCAAGAGCUCGUCGU 1679
Db            1 TTGAGAGATGATGCTGCT 17

RESULT 425
LOCUS          AX648760 17 bp DNA linear PAT 22-MAR-2003
DEFINITION    Sequence 600 from Patent EP1273660.
ACCESSION     AX648760
VERSION       AX648760.1 GI:29151578
KEYWORDS
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
               Homidae; Homo.
REFERENCE      1
AUTHORS        Gu,Y.
TITLE          Human sodium-hydrogen exchanger like protein 1
JOURNAL        Patent: EP 1273660-A 600 08-JAN-2003;
               Aeomica, Inc. (US)
FEATURES
source         1.17
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               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match    0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 2.8e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy            1087 GCCAUCUACUCCAUCCGU 1103
Db            1 GCCATCTCCGTCATCGT 17

RESULT 426
LOCUS          AX691839 17 bp DNA linear PAT 31-MAR-2003
DEFINITION    Sequence 4571 from Patent EP1281758.
ACCESSION     AX691839
VERSION       AX691839.1 GI:29414780
KEYWORDS
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
               Homidae; Homo.
REFERENCE      1
AUTHORS        Shannon,M., Gu,Y. and Nguyen,C.T.
TITLE          Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and
               mdz12
JOURNAL        Patent: EP 1281758-A 4571 05-FEB-2003;
               Aeomica, Inc. (US)
FEATURES
source         1.17
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               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match    0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 2.8e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy            1313 CUAAAGCUUCGACGUC 1329

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RESULT 418
LOCUS AX475754 17 bp DNA linear PAT 12-AUG-2002
DEFINITION Sequence 975 from Patent WO0224750.
ACCESSION AX475754
VERSION AX475754.1 GI:22215039
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Zhang, J.
TITLE Human kidney tumor overexpressed membrane protein 1
JOURNAL Patent: WO 0224750-A 975 28-MAR-2002;
Aeomica, Inc. (US)
FEATURES
source location/Qualifiers
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 2.8e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
Qy 1280 UUCCCAUCCAGCUGAG 1296
Db 17 TTCCCTCCAGGAGAG 1
RESULT 419
LOCUS AX531289 17 bp DNA linear PAT 22-NOV-2002
DEFINITION Sequence 798 from Patent EP1239051.
ACCESSION AX531289
VERSION AX531289.1 GI:25254364
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Shannon, M.
TITLE Human posh-like protein 1
JOURNAL Patent: EP 1239051-A 798 11-SEP-2002;
Aeomica, Inc. (US)
FEATURES
source location/Qualifiers
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/db_xref="taxon:9606"
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Qy 281 AGGCAACAAGCAGCUG 297
Db 1 AAGTCATCAAGCAGCTG 17
RESULT 420
LOCUS AX579508 17 bp RNA linear PAT 10-JAN-2003
DEFINITION Sequence 1346 from Patent WO0211674.
ACCESSION AX579508
VERSION AX579508.1 GI:27648710
KEYWORDS
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Thompson, J., Mcswigen, J., McKenzie, T., Ayers, D., Szymkowski, D.E.
and Grupe, A.
TITLE Method and reagent for the inhibition of calcium activated chloride
channel-1 (Clca-1)
JOURNAL Patent: WO 0211674-A 1346 14-FEB-2002;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ;
Thompson, James (US)
FEATURES
source location/Qualifiers
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/organism="Homo sapiens"
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/db_xref="taxon:9606"
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
Qy 358 AUUUGAUGAUCUGU 374
Db 1 AGTTCATGATCTCTT 17
RESULT 421
LOCUS AX579990 17 bp RNA linear PAT 10-JAN-2003
DEFINITION Sequence 1828 from Patent WO0211674.
ACCESSION AX579990
VERSION AX579990.1 GI:27649192
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Thompson, J., Mcswigen, J., McKenzie, T., Ayers, D., Szymkowski, D.E.
and Grupe, A.
TITLE Method and reagent for the inhibition of calcium activated chloride
channel-1 (Clca-1)
JOURNAL Patent: WO 0211674-A 1828 14-FEB-2002;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ;
Thompson, James (US)
FEATURES
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/organism="Homo sapiens"
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Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
Qy 360 UUCAUGAUCUGUUA 376
Db 1 TTCATGATCTCTTCA 17
RESULT 422
LOCUS AX616050 17 bp DNA linear PAT 20-FEB-2003
DEFINITION Sequence 857 from Patent EP1262488.
ACCESSION AX616050
VERSION AX616050.1 GI:28447096
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

DEFINITION Sequence 636 from patent US 6656700.
ACCESSION AR434213
VERSION AR434213.1 GI:40197056
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
AUTHORS 1 (bases 1 to 17)
TITLE Gu,Y. and Shannon,M.E.
JOURNAL Isoforms of human pregnancy-associated protein-E
Patent: US 6656700-A 636 02-DEC-2003;
Amersham PLC; Buckinghamshire;
GBX;
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1. .17
Location/Qualifiers
/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 2.8e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
QY 1674 GCUCGUGGCCAGUG 1690
Db 17 GCCGCTCTGCCAGTGTG 1
RESULT 414
LOCUS AR458624 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 2301 from patent US 6686188.
ACCESSION AR458624
VERSION AR458624.1 GI:42693681
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
AUTHORS 1 (bases 1 to 17)
TITLE Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
Shannon,M.E.
JOURNAL Polynucleotide encoding a human myosin-like polypeptide expressed
predominantly in heart and muscle
Patent: US 6686188-A 2301 03-FEB-2004;
Amersham PLC; Buckinghamshire;
GBX;
FEATURES
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Location/Qualifiers
/organism="unknown"
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Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 990 CCACGACGACGAGACA 1006
Db 1 CCACGACGACGAGTCCA 17
RESULT 415
LOCUS AR482658 17 bp DNA linear PAT 14-MAY-2004
DEFINITION Sequence 104 from patent US 6703228.
ACCESSION AR482658
VERSION AR482658.1 GI:47245181
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
AUTHORS 1 (bases 1 to 17)
TITLE Landers,J., Jordan,B., Housman,D.E. and Charest,A.
JOURNAL Methods and products related to genotyping and DNA analysis
Patent: US 6703228-A 104 09-MAR-2004;

Massachusetts Institute of Technology; Cambridge, MA
FEATURES
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Location/Qualifiers
/organism="unknown"
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Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 2.8e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
QY 1567 AAAACCUUGUGAUCU 1583
Db 17 AAAACCTTTGAATCT 1
RESULT 416
LOCUS AR482660 17 bp DNA linear PAT 14-MAY-2004
DEFINITION Sequence 106 from patent US 6703228.
ACCESSION AR482660
VERSION AR482660.1 GI:47245183
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
AUTHORS 1 (bases 1 to 17)
TITLE Landers,J., Jordan,B., Housman,D.E. and Charest,A.
JOURNAL Methods and products related to genotyping and DNA analysis
Patent: US 6703228-A 106 09-MAR-2004;
Massachusetts Institute of Technology; Cambridge, MA
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Best Local Similarity 52.9%; Pred. No. 2.8e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
QY 1567 AAAACCUUGUGAUCU 1583
Db 17 AAAACCTTTGAATCT 1
RESULT 417
LOCUS AR597925 17 bp RNA linear PAT 15-DEC-2004
DEFINITION Sequence 1867 from patent US 6818447.
ACCESSION AR597925
VERSION AR597925.1 GI:56648939
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
AUTHORS 1 (bases 1 to 17)
TITLE Payco,P., McSwigen,J., Stinchcomb,D. and Escobedo,J.
JOURNAL Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6818447-A 1867 16-NOV-2004;
Sirta Therapeutics, Inc.; Boulder, CO
FEATURES
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Location/Qualifiers
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Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
QY 606 UGCCAUCUUGUUCUGGC 622
Db 1 TGCAGTCTCTCTGCG 17

VERSION AR324465.1 GI:33710273
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Payco P., McSwigen J.A., Stinchcomb D.T. and Bacopado, J.
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 656127-A 1867 20-MAY-2003;
Ribozyme Pharmaceuticals, Inc. and Chiron Corporation; Boulder, CO
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Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
QY 606 UCCCAUCUUGUCUGC 622
Db 1 TCCCATGTTCTTCTGCGC 17
RESULT 409
LOCUS 157076 17 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 15 from patent US 5650554.
ACCESSION 157076
VERSION 157076.1 GI:2477499
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Moloney, M.
TITLE Oil-body proteins as carriers of high-value peptides in plants
JOURNAL Patent: US 5650554-A 15 22-JUL-1997;
Location/Qualifiers
FEATURES
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/mol_type="unassigned DNA"
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1343 GUAGAGCAGCGCCACU 1359
Db 1 GTTAAAGCAGCGCCACT 17
RESULT 410
LOCUS AR398265 17 bp RNA linear PAT 18-DEC-2003
DEFINITION Sequence 646 from patent US 6617438.
ACCESSION AR398265
VERSION AR398265.1 GI:40135936
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Beigelman, U., Burgin, A.B., Beaudry, A., Karpetsky, A., Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
TITLE Oligoribonucleotides with enzymatic activity
JOURNAL Patent: US 6617438-A 646 09-SEP-2003;
Sirna Therapeutics, Inc.; Boulder, CO
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Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 2.8e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
QY 1626 GUGCUAUGCUCUGUCA 1642
Db 1 GTGCTATGCTCTGGGCA 17
RESULT 411
LOCUS AR398502 17 bp RNA linear PAT 18-DEC-2003
DEFINITION Sequence 883 from patent US 6617438.
ACCESSION AR398502
VERSION AR398502.1 GI:40136378
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Beigelman, U., Burgin, A.B., Beaudry, A., Karpetsky, A., Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
TITLE Oligoribonucleotides with enzymatic activity
JOURNAL Patent: US 6617438-A 883 09-SEP-2003;
Sirna Therapeutics, Inc.; Boulder, CO
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source 1..17
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Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 2.8e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
QY 406 UUAGGAGACUUGCCUG 422
Db 1 TTAGGAGAGCTGCGCTG 17
RESULT 412
LOCUS AR401922 17 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 262 from patent US 6623962.
ACCESSION AR401922
VERSION AR401922.1 GI:40149372
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Akhtar, S., Fell, P. and McSwigen J.A.
TITLE Enzymatic nucleic acid treatment of diseases of conditions related to levels of epidermal growth factor receptors
JOURNAL Patent: US 6623962-A 262 23-SEP-2003;
Sirna Therapeutics, Inc. and Aetion University; Boulder, CO
FEATURES
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/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 756 GAGGAGCUAUAAGGAAA 772
Db 1 GAGGATCTTGAGGAAA 17
RESULT 413
LOCUS AR434213 17 bp DNA linear PAT 18-DEC-2003

VERSION 114562.1 GI:997045
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Apple,R.J., Bugawan,T.L. and Erlich,H.A.
TITLE Methods and reagents for HLA class I A locus DNA typing
JOURNAL Patent: US 5451512-A 39 19-SEP-1995;
FEATURES
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1. 17
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8e+02;
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Qy 1420 CAGAUCAUAGGCGA 1436
Db 1 CAGATCACCAAGCGCA 17
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RESULT 404
LOCUS AR188612 17 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 4100 from patent US 6346398.
ACCESSION AR188612
VERSION AR188612.1 GI:20234577
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6346398-A 4100 12-FEB-2002;
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/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 606 UGCCAUCUUGUCGAC 622
Db 1 TGCCTATGCTCTCTGCG 17
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RESULT 405
LOCUS AR190186 17 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 5674 from patent US 6346398.
ACCESSION AR190186
VERSION AR190186.1 GI:20236151
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor
JOURNAL Patent: US 6346398-A 5674 12-FEB-2002;
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Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Best Local Similarity 47.1%; Pred. No. 2.8e+02;
Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 606 UGCCAUCUUGUCGAC 622
Db 1 TGCCTATGCTCTCTGCG 17
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RESULT 406
LOCUS AR286275 17 bp RNA linear PAT 10-APR-2003
DEFINITION Sequence 647 from patent US 6528640.
ACCESSION AR286275
VERSION AR286275.1 GI:29723871
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Beigelman,L., Burgin,A., Beaudry,A., Karpeisky,A., Matulic-Adamic,J., Svedler,D. and Zinnen,S.
TITLE Synthetic ribonucleic acids with RNase activity
JOURNAL Patent: US 6528640-A 647 04-MAR-2003;
FEATURES
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1. 17
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/mol_type="unassigned RNA"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 2.8e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1626 GUGCUAUGCUCUGGCA 1642
Db 1 GTGCTATGCTCTGCGCA 17
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RESULT 407
LOCUS AR286512 17 bp RNA linear PAT 10-APR-2003
DEFINITION Sequence 884 from patent US 6528640.
ACCESSION AR286512
VERSION AR286512.1 GI:29724108
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Beigelman,L., Burgin,A., Beaudry,A., Karpeisky,A., Matulic-Adamic,J., Svedler,D. and Zinnen,S.
TITLE Synthetic ribonucleic acids with RNase activity
JOURNAL Patent: US 6528640-A 884 04-MAR-2003;
FEATURES
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/mol_type="unassigned RNA"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 2.8e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 406 UUNGGAGACUUGGCTUG 422
Db 1 TTAGGAGACTGCGCTG 17
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RESULT 408
LOCUS AR324465 17 bp RNA linear PAT 17-AUG-2003
DEFINITION Sequence 1867 from patent US 6566127.
ACCESSION AR324465

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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1709 AGCAGCAGUACGACGAG 1725
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17 AGCAGCAGCAGCAGCAG 1

RESULT 400
DD187816/c DD187816 17 bp DNA linear PAT 19-JAN-2006
LOCUS DD187816
DEFINITION Probe set and method for identification of allele of HLA.
ACCESSION DD187816
VERSION DD187816.1 GI:85644994
KEYWORDS WO 2005063985-A/257.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 17)

REFERENCE
AUTHORS Tsukada,M.
TITLE Probe set and method for identification of allele of HLA.
JOURNAL Patent: WO 2005063985-A 257 14-JUL-2005;

COMMENT
OS Homo sapiens
PN WO 2005063985-A/257
PD 14-JUL-2005 WO 2004JP019763
PR 24-DEC-2004 WO 2004JP019763
PR 25-DEC-2003 JP 03P 430556,25-DEC-2003 JP 03P 430555, PR
25-DEC-2003 JP 03P 430559,25-DEC-2003 JP 03P 430553, PR
25-DEC-2003 JP 03P 430558,25-DEC-2003 JP 03P 430557, PR
25-DEC-2003 JP 03P 430554
PI mamoru tsukada
CC FH
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source Location/Qualifiers.
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
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Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 152 CUCCAGACGUGACACC 168
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17 CTCGACGAGCAGCACC 1

Db 17 CTCGACGAGCAGCACC 1

RESULT 401
DD190912/c DD190912 17 bp DNA linear PAT 19-JAN-2006
LOCUS DD190912
DEFINITION Probe set and method for identification of allele of HLA.
ACCESSION DD190912
VERSION DD190912.1 GI:85653118
KEYWORDS WO 2005063985-A/3353.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 17)

REFERENCE
AUTHORS Tsukada,M.
TITLE Probe set and method for identification of allele of HLA.
JOURNAL Patent: WO 2005063985-A 3353 14-JUL-2005;

COMMENT
OS Homo sapiens
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PN WO 2005063985-A/3353
PD 14-JUL-2005
PR 24-DEC-2004 WO 2004JP019763
PR 25-DEC-2003 JP 03P 430556,25-DEC-2003 JP 03P 430555, PR
25-DEC-2003 JP 03P 430559,25-DEC-2003 JP 03P 430553, PR
25-DEC-2003 JP 03P 430558,25-DEC-2003 JP 03P 430557, PR
25-DEC-2003 JP 03P 430554
PI mamoru tsukada
CC FH
FEATURES
source Location/Qualifiers.
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1709 AGCAGCAGUACGACGAG 1725
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17 AGCAGCAGCAGCAGCAG 1

Db 17 AGCAGCAGCAGCAGCAG 1

RESULT 402
DD190916/c DD190916 17 bp DNA linear PAT 19-JAN-2006
LOCUS DD190916
DEFINITION Probe set and method for identification of allele of HLA.
ACCESSION DD190916
VERSION DD190916.1 GI:85653122
KEYWORDS WO 2005063985-A/3357.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 17)

REFERENCE
AUTHORS Tsukada,M.
TITLE Probe set and method for identification of allele of HLA.
JOURNAL Patent: WO 2005063985-A 3357 14-JUL-2005;

COMMENT
OS Homo sapiens
PN WO 2005063985-A/3357
PD 14-JUL-2005 WO 2004JP019763
PR 24-DEC-2004 WO 2004JP019763
PR 25-DEC-2003 JP 03P 430556,25-DEC-2003 JP 03P 430555, PR
25-DEC-2003 JP 03P 430559,25-DEC-2003 JP 03P 430553, PR
25-DEC-2003 JP 03P 430558,25-DEC-2003 JP 03P 430557, PR
25-DEC-2003 JP 03P 430554
PI mamoru tsukada
CC FH
FEATURES
source Location/Qualifiers.
1..17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1709 AGCAGCAGUACGACGAG 1725
|||||
17 AGCAGCAGCAGCAGCAG 1

Db 17 AGCAGCAGCAGCAGCAG 1

RESULT 403
DD190912/c DD190912 17 bp DNA linear PAT 26-SEP-1995
LOCUS DD190912
DEFINITION Sequence 39 from patent US 5451512.
ACCESSION DD190912
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/note="probe HPA-3ba"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1179 GGAGGAGCTGGGAGCG 1195
Db 17 GGAGGGGCTGGGGCTGG 1

RESULT 396
LOCUS CS185409 17 bp DNA linear PAT 04-NOV-2005
DEFINITION Sequence 102 from Patent EP1591534.
ACCESSION CS185409
VERSION CS185409.1 GI:80747482
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE
AUTHORS Belboer,S.H.
TITLE A method of genotyping blood cell antigens and a kit suitable for genotyping blood cell antigens
JOURNAL Patent: EP 1591534-A 102 02-NOV-2005;
Stichting Sangin Bloedvoorziening (NL)
Location/Qualifiers

FEATURES
source 1. .17
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="probe HPA-3ba CR"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1179 GGAGGAGCTGGGAGCG 1195
Db 1 GGAGGGGCTGGGGCTGG 17

RESULT 397
LOCUS DD185857/c 17 bp DNA linear PAT 19-JAN-2006
DEFINITION Probe sets for detection of HLA-A allele and methods thereof.
ACCESSION DD185857
VERSION DD185857.1 GI:85640490
KEYWORDS JP 2005185176-A/257.
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 17)
AUTHORS Tsukada,M.
TITLE Probe sets for detection of HLA-A allele and methods thereof
JOURNAL Patent: JP 2005185176-A 257 14-JUL-2005;
Canon inc
COMMENT OS artificial sequence
PN JP 2005185176-A/257
PD 14-JUL-2005
PF 25-DEC-2003 JP 2003430558
PI mamoru tsukada
CC probe for detection
FH Key Location/Qualifiers

FEATURES
source 1. .17
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8e+02;

Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 152 CUCCAGACGGUACCACC 168
Db 17 CTCGAGAGGACACC 1

RESULT 398
LOCUS DD186271/c 17 bp DNA linear PAT 19-JAN-2006
DEFINITION Probe sets and methods for identifying HLA-MICA allele.
ACCESSION DD186271
VERSION DD186271.1 GI:85641388
KEYWORDS JP 2005185177-A/34.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 17)
AUTHORS Tsukada,M.
TITLE Probe sets and methods for identifying HLA-MICA allele
JOURNAL Patent: JP 2005185177-A 34 14-JUL-2005;
CANON INC
COMMENT OS Homo sapiens
PN JP 2005185177-A/34
PD 14-JUL-2005
PF 25-DEC-2003 JP 2003430559
PI mamoru tsukada
CC
FH Key Location/Qualifiers

FEATURES
source 1. .17
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1709 AGCAGCAGUACGACGAG 1725
Db 17 AGCAGCAGCAGCAGCAG 1

RESULT 399
LOCUS DD186275/c 17 bp DNA linear PAT 19-JAN-2006
DEFINITION Probe sets and methods for identifying HLA-MICA allele.
ACCESSION DD186275
VERSION DD186275.1 GI:85641392
KEYWORDS JP 2005185177-A/38.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 17)
AUTHORS Tsukada,M.
TITLE Probe sets and methods for identifying HLA-MICA allele
JOURNAL Patent: JP 2005185177-A 38 14-JUL-2005;
CANON INC
COMMENT OS Homo sapiens
PN JP 2005185177-A/38
PD 14-JUL-2005
PF 25-DEC-2003 JP 2003430559
PI mamoru tsukada
CC
FH Key Location/Qualifiers

FEATURES
source 1. .17
/organism="Homo sapiens"

TITLE Methods and products related to genotyping and DNA analysis
JOURNAL Patent: JP 2002525127-A 106 13-AUG-2002;
COMMENT MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Homo sapiens (human)
PN JP 2002525127-A/106
PD 13-AUG-2002
PF 24-SEP-1999 JP 2000572407
PR 25-SEP-1998 US 60/101757
PI JOHN E LANDERS, BARBARA JORDAN, DAVID E HOUSMAN, ALAIN CHAREST PC
C12N15/09, C12Q1/68, G01N33/53, G01N33/566, G01N33/58, G01N37/00, PC
G01N37/00,
PC C12N15/00
CC Methods and products related to genotyping and DNA analysis FH
Key Location/Qualifiers
FT source 1..17
/organism='Homo sapiens (human)'.
Location/Qualifiers
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/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 2.8e+02;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1567 AACCCUUGGAAUCU 1583
Db 17 AAAACCTTTTGAATCT 1

RESULT 392
LOCUS CQ617561 17 bp DNA linear PAT 02-FEB-2004
DEFINITION Sequence 2301 from Patent WO0192524.
ACCESSION CQ617561
VERSION CQ617561.1 GI:41667779
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
Shannon,M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 2301 06-DEC-2001;
Aecmica, Inc. (US)
FEATURES
source 1..17
/organism='Homo sapiens'
/mol_type='unassigned DNA'
/db_xref='taxon:9606'

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 990 CCACGACGACGACGACA 1006
Db 1 CCACGACGACGACGACA 17

RESULT 393
LOCUS CQ875811 17 bp DNA linear PAT 04-OCT-2004
DEFINITION Sequence 5 from Patent EP1462527.
ACCESSION CQ875811
VERSION CQ875811.1 GI:53789556
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct

other sequences; artificial sequences.

REFERENCE
AUTHORS Costello,C., Ma,N., Schreiber,S. and Seeger,D.
TITLE Novel markers for inflammatory bowel disease
JOURNAL Patent: EP 1462527-A 5 29-SEP-2004;
CONARIS research institute AG (DE)
FEATURES
source 1..17
/organism='synthetic construct'
/mol_type='unassigned DNA'
/db_xref='taxon:32630'

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 2.8e+02;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 325 AGCCUGGCGCCGCGCA 341
Db 1 AGCCTGCGCTTGCCGA 17

RESULT 394
LOCUS CQ889694 17 bp DNA linear PAT 19-OCT-2004
DEFINITION Sequence 5 from Patent WO2004085677.
ACCESSION CQ889694
VERSION CQ889694.1 GI:54305543
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS Costello,C., Ma,N., Schreiber,S. and Seeger,D.
TITLE Novel markers for inflammatory bowel disease
JOURNAL Patent: WO 2004085677-A 5 07-OCT-2004;
CONARIS research institute AG (DE)
FEATURES
source 1..17
/organism='synthetic construct'
/mol_type='unassigned DNA'
/db_xref='taxon:32630'
/note='Primer'

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 2.8e+02;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 325 AGCCUGGCGCCGCGCA 341
Db 1 AGCCTGCGCTTGCCGA 17

RESULT 395
LOCUS CS185402/c 17 bp DNA linear PAT 04-NOV-2005
DEFINITION Sequence 95 from Patent EP1591534.
ACCESSION CS185402
VERSION CS185402.1 GI:80747475
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS Beiboer,S.H.
TITLE A method of genotyping blood cell antigens and a kit suitable for
JOURNAL genotyping blood cell antigens
Stichting Sanguin Bloedvoorziening (NL)
Patent: EP 1591534-A 95 02-NOV-2005;
FEATURES
source 1..17
/organism='synthetic construct'
/mol_type='unassigned DNA'
/db_xref='taxon:32630'

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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match          0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1045 UCCGCTCCTCCGA 1058
      :|||||:|||||
      16 TCCGCTCCTCCGA 3

RESULT 386
LOCUS      AX729755/c              17 bp      DNA      linear      PAT 08-MAY-2003
DEFINITION Sequence 1389 from Patent WO03025175.
ACCESSION  AX729755
VERSION     AX729755.1 GI:30509098
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE
AUTHORS    Telerman,A., Amson,R. and Tuijnder,M.
TITLE       Sequences involved in phenomena of tumour suppression, tumour
            reversion, apoptosis and/or virus resistance and their use as
            medicines
            Patent: WO 03025175-A 1389 27-MAR-2003;
            Molecular Engines Laboratories (FR)
FEATURES
source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match          0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1045 UCCGCTCCTCCGA 1058
      :|||||:|||||
      16 TCCGCTCCTCCGA 3

RESULT 387
LOCUS      AX733963/c              17 bp      DNA      linear      PAT 08-MAY-2003
DEFINITION Sequence 5597 from Patent WO03025175.
ACCESSION  AX733963
VERSION     AX733963.1 GI:30513306
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE
AUTHORS    Telerman,A., Amson,R. and Tuijnder,M.
TITLE       Sequences involved in phenomena of tumour suppression, tumour
            reversion, apoptosis and/or virus resistance and their use as
            medicines
            Patent: WO 03025175-A 5597 27-MAR-2003;
            Molecular Engines Laboratories (FR)
FEATURES
source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match          0.8%; Score 14; DB 1; Length 17;

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ACCESSION CS185389
VERSION CS185389.1 GI:80747462
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Beiboer, S.H.
TITLE A method of genotyping blood cell antigens and a kit suitable for
JOURNAL genotyping blood cell antigens
Stichting Sanguin Bloedvoorziening (NLI)
location/Qualifiers
FEATURES
source 1. .18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="probe HPA-3ab"

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 2.6e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1180 GAGGAGCTGGGATGG 1195
Db 18 GAGGGGCTGGGATGG 3

RESULT 380
LOCUS CS185396 18 bp DNA PAT 04-NOV-2005
DEFINITION Sequence 89 from Patent EP1591534.
ACCESSION CS185396
VERSION CS185396.1 GI:80747469
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Beiboer, S.H.
TITLE A method of genotyping blood cell antigens and a kit suitable for
JOURNAL genotyping blood cell antigens
Patent: EP 1591534-A 89 02-NOV-2005;
Stichting Sanguin Bloedvoorziening (NLI)
location/Qualifiers
FEATURES
source 1. .18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="probe HPA-3ab CR"

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 2.6e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1180 GAGGAGCTGGGATGG 1195
Db 1 GAGGGGCTGGGATGG 16

RESULT 381
LOCUS AR216239 18 bp DNA PAT 25-SEP-2002
DEFINITION Sequence 25 from patent US 6410710.
ACCESSION AR216239
VERSION AR216239.1 GI:23314693
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Lederman, S. and Van Eynhoven, W.
TITLE Nucleic acid encoding a TRAF-3 deletion isoform

JOURNAL Patent: US 6410710-A 25 25-JUN-2002;
NY; The Trustees of the University in the City of New York; New York,
WOX;
FEATURES
source 1. .18
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 1393 AAGAGGTTGCTCTCA 1408
Db 2 AAGAGGTTGCTCTCA 17

RESULT 382
LOCUS AR241961 18 bp DNA PAT 20-DEC-2002
DEFINITION Sequence 249 from patent US 6472154.
ACCESSION AR241961
VERSION AR241961.1 GI:27287773
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Garner, H.R., Wren, J.D., Minna, J.D. and Fondon, J.W. III.
TITLE Polymorphic repeats in human genes
JOURNAL Patent: US 6472154-A 249 29-OCT-2002;
Board of Regents, The University of Texas System; Austin, TX
location/Qualifiers
FEATURES
source 1. .18
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 2.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1701 GAGCGCGACGACGACG 1716
Db 1 GAGCGCGACGACGACG 16

RESULT 383
LOCUS A24597 16 bp DNA PAT 02-OCT-1995
DEFINITION Tomato genomic PstI fragment.
ACCESSION A24597
VERSION A24597.1 GI:1247303
KEYWORDS
SOURCE Lycopersicon esculentum (Solanum Lycopersicum)
ORGANISM Lycopersicon esculentum (Solanum Lycopersicum)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
asterids; lamids; Solanales; Solanaceae; Solanum; Lycopersicon.
REFERENCE 1 (bases 1 to 16)
AUTHORS Zabeau, M. and Vos, P.
TITLE Selective restriction fragment amplification : a general method for
JOURNAL DNA fingerprinting
Patent: EP 0534858-A 7 31-MAR-1993;
KEYGENE N.V.
location/Qualifiers
FEATURES
source 1. .16
/organism="Lycopersicon esculentum"
/mol_type="unassigned DNA"
/db_xref="taxon:4081"

Query Match 0.8%; Score 14; DB 1; Length 16;
Best Local Similarity 92.9%; Pred. No. 2.3e+02;

JOURNAL	Patent: US 6083685-A 41 04-JUN-2000;
FEATURES	Location/Qualifiers
source	1..18
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	/mol_type="unassigned DNA"
Query Match	0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity	70.6%; Pred. No. 2.5e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;	
QY	1113 UCCGGCUCACGACCA 1129
Db	17 TCYGATCAGCACCA 1
RESULT 375	
LOCUS	ARI57062 17 bp DNA linear PAT 08-AUG-2001
ARI57062/C	
DEFINITION	Sequence 7 from patent US 6242587.
ACCESSION	ARI57062
VERSION	ARI57062.1 GI:15125766
KEYWORDS	
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 17)
TITLE	Naik,V.P. and Parise,L.V.
JOURNAL	DNA molecules encoding a calcium-integrin binding protein
FEATURES	Patent: US 6242587-A 7 05-JUN-2001;
source	Location/Qualifiers
	1..17
	/organism="unknown"
	/mol_type="unassigned DNA"
Query Match	0.8%; Score 14.4; DB 1; Length 17;
Best Local Similarity	68.8%; Pred. No. 2.4e+02;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;	
QY	248 UCAGCGCACAUCCU 263
Db	16 TCATCGACACATCCT 1
RESULT 376	
LOCUS	AX722775 17 bp DNA linear PAT 08-MAY-2001
AX722775	
DEFINITION	Sequence 462 from Patent WO03025176.
ACCESSION	AX722775
VERSION	AX722775.1 GI:30423276
KEYWORDS	
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus
REFERENCE	Euhayiotis, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Euteleostomi; Euteleostomi; Euteleostomi; Euteleostomi;
TITLE	Scurognathi, Muroidea; Muridae; Murinae; Mus.
	1
	Teleman, A., Amson, R. and Tuijinder, M.
	Sequences involved in phenomena of tumour suppression, tumour
	reversion, apoptosis and/or virus resistance and their use as
	medicines
	Patent: WO 03025176-A 462 27-MAR-2003;
JOURNAL	Molecular Engines Laboratories (FR)
FEATURES	Location/Qualifiers
source	1..17
	/organism="Mus musculus"
	/mol_type="unassigned DNA"
	/db_xref="taxon:10090"
Query Match	0.8%; Score 14.4; DB 1; Length 17;
Best Local Similarity	62.5%; Pred. No. 2.4e+02;
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;	
QY	473 AUCUCUGACAUCA 488

Db	Accession	Score	Length	Indels	Gaps
RESULT 377	AX723940	17 bp	DNA	linear	PAT 08-MAY-2003
LOCUS	AX723940/c				
DEFINITION	Sequence 1627 from Patent WO03025176.				
ACCESSION	AX723940				
VERSION	AX723940.1	GI:30503283			
KEYWORDS					
SOURCE	Mus musculus (house mouse)				
ORGANISM	Mus musculus				
REFERENCE	1. Telerman, A., Amson, R. and Tuijnier, M.				
AUTHORS	Sequences involved in phenomena of tumour suppression, tumour				
TITLE	reversion, apoptosis and/or virus resistance and their use as				
JOURNAL	Patent: WO 03025176-A 1627 27-MAR-2003;				
FEATURES	Molecular Engines Laboratories (FR)				
source	Location/Qualifiers				
	1..17				
	/organism="Mus musculus"				
	/mol_type="unassigned DNA"				
	/db_xref="taxon:10090"				
Query Match	0.8%; Score 14.4; DB 1;	Length 17;			
Best Local Similarity	81.2%; Pred. No. 2.4e+02;				
Matches 13; Conservative	2; Mismatches 1;	Indels 0;	Gaps 0;		
QY	1178 AGAGAGAGCUGGCGAU 1193				
Db	17 AGTAGAGACTGGGAT 2				
RESULT 378	CS173519	18 bp	DNA	linear	PAT 05-OCT-2005
LOCUS	CS173519				
DEFINITION	Sequence 5 from Patent WO2005060345.				
ACCESSION	CS173519				
VERSION	CS173519.1	GI:77153733			
KEYWORDS					
SOURCE	synthetic construct				
ORGANISM	synthetic construct				
REFERENCE	1. Tooke, N.				
AUTHORS	New method for sequencing-by-synthesis				
TITLE	Patent: WO 2005060345-A 5 07-JUL-2005;				
JOURNAL	Biotech AB (SE)				
FEATURES	Location/Qualifiers				
source	1..18				
	/organism="synthetic construct"				
	/mol_type="unassigned DNA"				
	/db_xref="taxon:32630"				
	/note="chemically synthesized"				
Query Match	0.8%; Score 14.4; DB 1;	Length 18;			
Best Local Similarity	81.2%; Pred. No. 2.6e+02;				
Matches 13; Conservative	2; Mismatches 1;	Indels 0;	Gaps 0;		
QY	1604 UCAACGACGACCGGAA 1619				
Db	3 TCACAGCGCCGTTGAA 18				
RESULT 379	CS185389/c	18 bp	DNA	linear	PAT 04-NOV-2005
LOCUS	CS185389/c				
DEFINITION	Sequence 82 from Patent EP151534.				

RESULT 370
DD174035
LOCUS DD174035 18 bp DNA linear PAT 19-DEC-2005
DEFINITION LEINAMYCIN BIOSYNTHESIS GENE CLUSTER AND ITS COMPONENTS AND THEIR USES.
ACCESSION DD174035
VERSION DD174035.1 GI:83971412
KEYWORDS JP 2005512504-A/6.
SOURCE unidentified
ORGANISM unclassified sequences.
REFERENCE 1 (bases 1 to 18)
AUTHORS Shen,B.,Chen,Y. and Tang,G.
TITLE LEINAMYCIN BIOSYNTHESIS GENE CLUSTER AND ITS COMPONENTS AND THEIR JOURNAL Patent: JP 2005512504-A 6 12-MAY-2005;
COMMENT THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
OS Artificial
PN JP 2005512504-A/6
PD 12-MAY-2005
PF 22-MAR-2002 JP 2002576622
PR 26-MAR-2001 US 60/278935
PI ben shen,yi-qiang chen,gou-li tang
CC Synthetic oligonucleotide PCR primer.
FH Key Location/Qualifiers.
FEATURES
source 1..18
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 2.4e+02;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Oy 1270 UUCUCCAGCUCUCCCAUC 1287
Db 1 TTGCCCAAGCTTCCATC 18

RESULT 371
A61305
LOCUS A61305 18 bp DNA linear PAT 09-MAR-1998
DEFINITION Sequence 17 from Patent WO9709452.
ACCESSION A61305
VERSION A61305.1 GI:3715719
KEYWORDS
SOURCE unidentified
ORGANISM unclassified sequences.
REFERENCE 1
AUTHORS Petrik,J.
TITLE SYSTEMATIC EXTRACTION, AMPLIFICATION AND DETECTION OF RETROVIRAL SEQUENCES, AND OLIGONUCLEOTIDES FOR USE THEREIN
JOURNAL Patent: WO 9709452-A 17 13-MAR-1997;
UNIV CAMBRIDGE TECH (GB)
FEATURES
source 1..18
Location/Qualifiers
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 2.5e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Oy 1113 UCCGGGUCACAGACCA 1129
Db 2 TCTGAGTCAACGACCA 18

RESULT 372

A61329/c
LOCUS A61329 18 bp DNA linear PAT 09-MAR-1998
DEFINITION Sequence 41 from Patent WO9709452.
ACCESSION A61329
VERSION A61329.1 GI:3715743
KEYWORDS
SOURCE unidentified
ORGANISM unclassified sequences.
REFERENCE 1
AUTHORS Petrik,J.
TITLE SYSTEMATIC EXTRACTION, AMPLIFICATION AND DETECTION OF RETROVIRAL SEQUENCES, AND OLIGONUCLEOTIDES FOR USE THEREIN
JOURNAL Patent: WO 9709452-A 41 13-MAR-1997;
UNIV CAMBRIDGE TECH (GB)
FEATURES
source 1..18
Location/Qualifiers
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 2.5e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Oy 1113 UCCGGGUCACAGACCA 1129
Db 17 TCTGAGTCAACGACCA 1

RESULT 373
AR100814
LOCUS AR100814 18 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 17 from patent US 6083685.
ACCESSION AR100814
VERSION AR100814.1 GI:12811612
KEYWORDS
SOURCE unknown.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Petrik,J.
TITLE Systematic extraction, amplification and detection of retroviral sequences, and oligonucleotides for use therein
JOURNAL Patent: US 6083685-A 17 04-JUL-2000;
UNIV CAMBRIDGE TECH (GB)
FEATURES
source 1..18
Location/Qualifiers
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 2.5e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Oy 1113 UCCGGGUCACAGACCA 1129
Db 2 TCTGAGTCAACGACCA 18

RESULT 374
AR100838/c
LOCUS AR100838 18 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 41 from patent US 6083685.
ACCESSION AR100838
VERSION AR100838.1 GI:12811636
KEYWORDS
SOURCE unknown.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Petrik,J.
TITLE Systematic extraction, amplification and detection of retroviral sequences, and oligonucleotides for use therein

LOCUS AX718623 18 bp DNA
 DEFINITION Sequence 187 from Patent WO02103043.
 ACCESSION AX718623
 VERSION AX718623.1 GI:29891189
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.
 REFERENCE
 AUTHORS Beinforh,C. and Snaidr,U.
 TITLE Method for the specific fast detection of bacteria which is harmful to beer
 JOURNAL Patent: WO 02103043-A 187 27-DEC-2002;
 Vermicon AG (DE)
 FEATURES
 source Location/Qualifiers
 1..18
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="Oligonucleotide"

Query Match 0.9%; Score 15.4; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 2e+02;
 Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 153 UCCAGACGGUACCGC 169
 Db 1 TCCATACGGTACCACCG 17

RESULT 366
 AR295199 19 bp DNA
 LOCUS AR295199
 DEFINITION Sequence 6934 from patent US 6537751.
 ACCESSION AR295199
 VERSION AR295199.1 GI:31682483
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 1 (bases 1 to 19)
 REFERENCE Cohen,D., Chumakov,I. and Blumenfeld,M.
 AUTHORS Biallelic markers for use in constructing a high density
 TITLE Biallelic markers for use in constructing a high density
 JOURNAL Patent: US 6537751-A 6934 25-MAR-2003;
 Genset S.A.;
 FRX;
 FEATURES
 source Location/Qualifiers
 1..19
 /organism="unknown"
 /mol_type="genomic DNA"

Query Match 0.9%; Score 15.4; DB 1; Length 19;
 Best Local Similarity 70.6%; Pred. No. 2.3e+02;
 Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 38 UGCCAACUACGCTCC 54
 Db 3 TTCCAACATCAGCTCC 19

RESULT 367
 AR295723 19 bp DNA
 LOCUS AR295723
 DEFINITION Sequence 7458 from patent US 6537751.
 ACCESSION AR295723
 VERSION AR295723.1 GI:31683007
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 1 (bases 1 to 19)
 REFERENCE Cohen,D., Chumakov,I. and Blumenfeld,M.
 AUTHORS

TITLE Biallelic markers for use in constructing a high density
 JOURNAL disequilibrium map of the human genome
 ACCESSION Patent: US 6537751-A 7458 25-MAR-2003;
 VERSION Genset S.A.;
 FRX;
 FEATURES
 source Location/Qualifiers
 1..19
 /organism="unknown"
 /mol_type="genomic DNA"

Query Match 0.9%; Score 15.4; DB 1; Length 19;
 Best Local Similarity 58.8%; Pred. No. 2.3e+02;
 Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 684 GCCCACCACUACUUG 700
 Db 1 GCCCACCCTTACTTTC 17

RESULT 368
 AR105389 18 bp DNA
 LOCUS AR105389
 DEFINITION Sequence 27 from patent US 6096543.
 ACCESSION AR105389
 VERSION AR105389.1 GI:12818986
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 1 (bases 1 to 18)
 REFERENCE Monia,B.P. and Cowseert,L.M.
 AUTHORS Antisense inhibition of human mek1 expression
 TITLE Antisense inhibition of human mek1 expression
 JOURNAL Patent: US 6096543-A 27 01-AUG-2000;
 FEATURES
 source Location/Qualifiers
 1..18
 /organism="unassigned DNA"
 /mol_type="unassigned DNA"

Query Match 0.8%; Score 15; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 2.3e+02;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 40 CCAACACUACGCTCC 54
 Db 4 CCAACATCAGCTCC 18

RESULT 369
 AR092811 18 bp DNA
 LOCUS AR092811
 DEFINITION Sequence 26 from patent US 5998206.
 ACCESSION AR092811
 VERSION AR092811.1 GI:10019563
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 1 (bases 1 to 18)
 REFERENCE Cowseert,L.M.
 AUTHORS Antisense inhibition of human G-alpha-12 expression
 TITLE Antisense inhibition of human G-alpha-12 expression
 JOURNAL Patent: US 5998206-A 26 07-DEC-1999;
 FEATURES
 source Location/Qualifiers
 1..18
 /organism="unknown"
 /mol_type="unassigned DNA"

Query Match 0.8%; Score 14.8; DB 1; Length 18;
 Best Local Similarity 66.7%; Pred. No. 2.4e+02;
 Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 246 CAUACUACGCAUCCU 263
 Db 18 CATCTTCAACATCTCT 1

LOCUS CS185388 18 bp DNA linear PAT 04-NOV-2005
DEFINITION Sequence 81 from Patent EP1591534.
ACCESSION CS185388
VERSION CS185388.1 GI:80747461
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1
AUTHORS Beiboer, S.H.
TITLE A method of genotyping blood cell antigens and a kit suitable for genotyping blood cell antigens
JOURNAL Patent: EP 1591534-A 81 02-NOV-2005;
Stichting Sangquin Bloedvoorziening (NL)
FEATURES
source Location/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="probe HPA-3aa"

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 2e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1179 GGAGGAGCUGGGGATGG 1195
Db 17 GGAGGGGCTGGGGATGG 1

RESULT 362
LOCUS CS185395 18 bp DNA linear PAT 04-NOV-2005
DEFINITION Sequence 88 from Patent EP1591534.
ACCESSION CS185395
VERSION CS185395.1 GI:80747468
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1
AUTHORS Beiboer, S.H.
TITLE A method of genotyping blood cell antigens and a kit suitable for genotyping blood cell antigens
JOURNAL Patent: EP 1591534-A 88 02-NOV-2005;
Stichting Sangquin Bloedvoorziening (NL)
FEATURES
source Location/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="probe HPA-3aa CR"

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 2e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1179 GGAGGAGCUGGGGATGG 1195
Db 2 GGAGGGGCTGGGGATGG 18

RESULT 363
LOCUS DD184859/c 18 bp DNA linear PAT 19-JAN-2006
DEFINITION Probe sets and methods for identifying HLA-B allele.
ACCESSION DD184859
VERSION DD184859.1 GI:85637806
KEYWORDS JP 2005185172-A/285.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

REFERENCE 1 (bases 1 to 18)
AUTHORS Tsukada, M.
TITLE Probe sets and methods for identifying HLA-B allele
JOURNAL Patent: JP 2005185172-A 285 14-JUL-2005;
CANON INC
COMMENT OS Homo sapiens
PN JP 2005185172-A/285
PD 14-JUL-2005
PF 25-DEC-2003 JP 2003430554
PI mamoru tsukada
CC
FH Key Location/Qualifiers
1..18
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 2e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1185 GCUGGGAGUGUGACU 1201
Db 18 GATGGGATGTGGACT 2

RESULT 364
LOCUS DD18481 18 bp DNA linear PAT 19-JAN-2006
DEFINITION Probe set and method for identification of allele of HLA.
ACCESSION DD18481
VERSION DD18481.1 GI:85646833
KEYWORDS WO 2005063985-A/922.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 18)
AUTHORS Tsukada, M.
TITLE Probe set and method for identification of allele of HLA
JOURNAL Patent: WO 2005063985-A 922 14-JUL-2005;
CANON INC
COMMENT OS Homo sapiens
PN WO 2005063985-A/922
PD 14-JUL-2005
PF 24-DEC-2004 WO 2004JP019763
PR 25-DEC-2003 JP 03P 430556, 25-DEC-2003 JP 03P 430555, PR
25-DEC-2003 JP 03P 430559, 25-DEC-2003 JP 03P 430553, PR
25-DEC-2003 JP 03P 430558, 25-DEC-2003 JP 03P 430557, PR
PI mamoru tsukada
CC
FH Key Location/Qualifiers
1..18
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 2e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1185 GCUGGGAGUGUGACU 1201
Db 18 GATGGGATGTGGACT 2

RESULT 365
AX718623

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ACCESSION   A97983
VERSION     A97983.1 GI:6781221
KEYWORDS
SOURCE      unidentified
ORGANISM    unidentified
            unclassified sequences.
REFERENCE   1 (bases 1 to 18)
AUTHORS     Pongers-Willense,M.J. and Van,D.J.
TITLE       DETECTION OF MINIMAL RESIDUAL DISEASE IN LYMPHOID MALIGNANCIES
JOURNAL     Patent: WO 9914366-A 13 25-MAR-1999;
            DONGEN JACOBUS JOHANNES MARIA (NL); UNIV ERASMUS (NL)
FEATURES
source      1..18
            /organism="unidentified"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32644"

Query Match
Best Local Similarity 82.4%; Pred. No. 2e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          1173 GCCUGAGAGAGACTCG 1189
DB          1 GCATGAGAGAGACTG3 17

RESULT 357
LOCUS       AR096229 18 bp DNA linear PAT 08-SEP-2000
DEFINITION Sequence 13 from patent US 6005095.
ACCESSION   AR096229
VERSION     AR096229.1 GI:10024845
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 18)
AUTHORS     Capaccioli,S., Morelli,S. and Nicolin,A.
TITLE       Antisense transcript associated to tumor cells having a T(14;18)
            translocation and oligodeoxynucleotides useful in the diagnosis and
            treatment of said tumor cells
JOURNAL     Patent: US 6005095-A 13 21-DEC-1999;
            Location/Qualifiers
FEATURES
source      1..18
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match
Best Local Similarity 76.5%; Pred. No. 2e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY          631 GUGGAAAGAGAACTGU 647
DB          2 GCTGAAAGAGAACTGT 18

RESULT 358
LOCUS       AR096248/c 18 bp DNA linear PAT 08-SEP-2000
DEFINITION Sequence 32 from patent US 6005095.
ACCESSION   AR096248
VERSION     AR096248.1 GI:10024882
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 18)
AUTHORS     Capaccioli,S., Morelli,S. and Nicolin,A.
TITLE       Antisense transcript associated to tumor cells having a T(14;18)
            translocation and oligodeoxynucleotides useful in the diagnosis and
            treatment of said tumor cells
JOURNAL     Patent: US 6005095-A 32 21-DEC-1999;
            Location/Qualifiers
FEATURES

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source      1..18
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match
Best Local Similarity 76.5%; Pred. No. 2e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY          631 GUGGAAAGAGAACTGU 647
DB          17 GCTGAAAGAGAACTGT 1

RESULT 359
LOCUS       AR118332 18 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 7 from patent US 6140492.
ACCESSION   AR118332
VERSION     AR118332.1 GI:14099238
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 18)
AUTHORS     Morelli,S., Nicolin,A. and Quattrone,A.
TITLE       Antisense transcript expressed in B lymphocytes and synthetic
            oligonucleotides useful to inhibit the activity thereof
JOURNAL     Patent: US 6140492-A 7 31-OCT-2000;
            Location/Qualifiers
FEATURES
source      1..18
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match
Best Local Similarity 76.5%; Pred. No. 2e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY          631 GUGGAAAGAGAACTGU 647
DB          2 GCTGAAAGAGAACTGT 18

RESULT 360
LOCUS       AR118342 18 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 17 from patent US 6140492.
ACCESSION   AR118342
VERSION     AR118342.1 GI:14099248
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 18)
AUTHORS     Morelli,S., Nicolin,A. and Quattrone,A.
TITLE       Antisense transcript expressed in B lymphocytes and synthetic
            oligonucleotides useful to inhibit the activity thereof
JOURNAL     Patent: US 6140492-A 17 31-OCT-2000;
            Location/Qualifiers
FEATURES
source      1..18
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match
Best Local Similarity 76.5%; Pred. No. 2e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY          631 GUGGAAAGAGAACTGU 647
DB          17 GCTGAAAGAGAACTGT 1

RESULT 361
LOCUS       CS185388/c

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FEATURES Location/Qualifiers
 source 1..19
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: Synthetic Primer"

Query Match 0.9%; Score 15.8; DB 1; Length 19;
 Best Local Similarity 63.2%; Pred. No. 2e+02;
 Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1673 UGUGUGUGGCGGAGUGUGA 1691
 :|||:|||||:|||||:
 Db 1 TGCTGCGGTGACGTGTGA 19

RESULT 348
 LOCUS CS191043 19 bp DNA linear PAT 14-NOV-2005
 DEFINITION Sequence 133 from Patent WO2005103689.
 ACCESSION CS191043
 VERSION CS191043.1 GI:82397088
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Spittaels,K.F.
 JOURNAL Patent: WO 2005103689-A 133 03-NOV-2005;
 Galapagos Genomics N.V. (BE)
 Location/Qualifiers
 1..19
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="Synthetic oligonucleotide"

Query Match 0.9%; Score 15.8; DB 1; Length 19;
 Best Local Similarity 57.9%; Pred. No. 2e+02;
 Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 257 ACAUCCUGUAUUGUGUC 275
 ||||:|||||:|||||:
 Db 1 ACATGCTGTAGTGTGTC 19

RESULT 349
 LOCUS CS191807 19 bp DNA linear PAT 14-NOV-2005
 DEFINITION Sequence 133 from Patent WO2005103715.
 ACCESSION CS191807
 VERSION CS191807.1 GI:82399000
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Spittaels,K.F.
 JOURNAL Patent: WO 2005103715-A 133 03-NOV-2005;
 Galapagos Genomics N.V. (BE)
 Location/Qualifiers
 1..19
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="Synthetic oligonucleotide"

Query Match 0.9%; Score 15.8; DB 1; Length 19;
 Best Local Similarity 57.9%; Pred. No. 2e+02;
 Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 257 ACAUCCUGUAUUGUGUC 275

Db ||||:|||||:|||||:
 1 ACATGCTGTAGTGTGTC 19

RESULT 350
 LOCUS AX278625/c 19 bp DNA linear PAT 02-NOV-2001
 DEFINITION Sequence 162 from Patent WO0177372.
 ACCESSION AX278625
 VERSION AX278625.1 GI:16606079
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Remacle,J., Hamels,S., Zammateo,N., Lockman,L., Dufour,S.,
 Alexandre,I. and de Longueville,F.
 JOURNAL Identification of biological (micro) organisms by detection of the
 1r homologous nucleotide sequences on arrays
 Patent: WO 0177372-A 162 18-OCT-2001;
 Facultes Universitaires Notre-Dame de la Paix (BE)
 Location/Qualifiers
 1..19
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="HTR7 Capture Probe"

Query Match 0.9%; Score 15.8; DB 1; Length 19;
 Best Local Similarity 78.9%; Pred. No. 2e+02;
 Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 510 CACGAGCCGCGCAGCGUAC 528
 |||||:|||||:|||||:
 Db 19 CACGAGACCCCTCAGCTAC 1

RESULT 351
 LOCUS BD259402 17 bp DNA linear PAT 17-JUL-2003
 DEFINITION Regulation of repressor genes using nucleic acid molecules.
 ACCESSION BD259402
 VERSION BD259402.1 GI:33069172
 KEYWORDS JP 2002541795-A/7195.
 SOURCE unidentified
 ORGANISM unidentified
 unclassified sequences.
 1 (bases 1 to 17)
 AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswigen,J.
 JOURNAL Regulation of repressor genes using nucleic acid molecules
 Patent: JP 2002541795-A 7195 10-DEC-2002;
 RIBOZYME PHARMACEUTICALS INC

COMMENT
 OS Eukaryote
 PN JP 2002541795-A/7195
 PD 10-DEC-2002
 PF 11-APR-2000 JP 200611654
 PR 12-APR-1999 US 60/129390
 PI LAWRENCE BLATT, MICHAEL ZWICK PAMELA PAVCO JAMES MCSWIGEN PC
 C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
 C12P21/02,
 PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1.91),(C12P21/02, PC
 C12R1.91),
 PC (C12P21/02,C12R1.91),(C12P21/02,C12R1.91),C12N15/00,C12N5/00,
 PC A61K37/02,
 PC C12N5/00,C12R1.91)
 CC Regulation of repressor genes using nucleic acid molecules FH
 Key Location/Qualifiers
 FT source 1..17
 /organism="Eukaryote".
 FEATURES Location/Qualifiers
 source 1..17
 /organism="unidentified"

FEATURES FT /organism='Canis familiaris (dog)'.
source 1..20
/organism="Canis familiaris"
/mol_type="genomic DNA"
/db_xref="taxon:9615"

Query Match 0.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 55.0%; Pred. No. 1.7e+02;
Matches 11; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 571 CUGGCTUGGCTGCAUCCUCCU 590
Db 20 CTGGCATGGGTCACTCTTT 1

RESULT 339
BD230609/c 20 bp DNA PAT 17-JUL-2003
LOCUS BD230609
DEFINITION Total genome radiation hybrid map of canine genome and its use for identification of interesting genes.
ACCESSION BD230609
VERSION BD230609.1 GI:33040379
KEYWORDS JP 2002530091-A/478.
SOURCE Canis familiaris (dog)
ORGANISM Canis familiaris
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae; Canis.
REFERENCE 1 (bases 1 to 20)
AUTHORS Galibert, F. and Andre, C.
TITLE Total genome radiation hybrid map of canine genome and its use for identification of interesting genes
JOURNAL CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
COMMENT OS Canis familiaris (dog)
PN JP 2002530091-A/478
PD 17-SEP-2002
PF 15-NOV-1999 JP 2000582596
PR 13-NOV-1998 US 60/108193
PI FRANCIS GALIBERT, CATHERINE ANDRE
PC C12N15/09, C12Q1/68, C12N15/00
CC B04201R
FH Key
FT source 1..20
Location/Qualifiers
FT Location/Qualifiers
1..20 /organism='Canis familiaris (dog)'.
/organism="Canis familiaris"
/mol_type="genomic DNA"
/db_xref="taxon:9615"

FEATURES source
1..20 /organism="Canis familiaris"
/mol_type="genomic DNA"
/db_xref="taxon:9615"

Query Match 0.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 55.0%; Pred. No. 1.7e+02;
Matches 11; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 571 CUGGCTUGGCTGCAUCCUCCU 590
Db 20 CTGGCATGGGTCACTCTTT 1

RESULT 340
AR337048 20 bp DNA PAT 17-AUG-2003
LOCUS AR337048
DEFINITION Sequence 21 from patent US 6566133.
ACCESSION AR337048
VERSION AR337048.1 GI:33722902
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Cowser, L. M.

TITLE Antisense inhibition of dual specific phosphatase 9 expression
JOURNAL Patent: US 6566133-A 21-20-MAY-2003;
Isis Pharmaceuticals, Inc.; Carlsbad, CA
FEATURES source 1..20
/organism="unknown"
/mol_type="genomic DNA"

Query Match 0.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 1.7e+02;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1464 AGCGGCCGAGCCGACGUG 1483
Db 1 AGCGGCCGAGCCCTTCATG 20

RESULT 341
CQ897421/c 21 bp DNA PAT 08-NOV-2004
LOCUS CQ897421
DEFINITION Sequence 3 from Patent WO2004092378.
ACCESSION CQ897421
VERSION CQ897421.1 GI:55582202
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Jackson, J. K., Burt, H., Springate, C. and Gleave, M.
TITLE Method for treatment of cancerous angiogenic disorders
JOURNAL Patent: WO 2004092378-A 3 28-OCT-2004;
The University of British Columbia (CA)
FEATURES source 1..21
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1664 UCAGAGUCGUGGUGGUC 1683
Db 20 TGAAGTCTGCTGCTGTC 1

RESULT 342
CQ897858/c 21 bp DNA PAT 08-NOV-2004
LOCUS CQ897858
DEFINITION Sequence 3 from Patent WO2004092379.
ACCESSION CQ897858
VERSION CQ897858.1 GI:55582465
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Jackson, J. K., Burt, H., Springate, C. and Gleave, M.
TITLE Method for treatment of angiogenic disorders
JOURNAL Patent: WO 2004092379-A 3 28-OCT-2004;
The University of British Columbia (CA)
FEATURES source 1..21
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 0.9%; Score 16.8; DB 1; Length 21;

misc_feature 18..19
/note="2#-deoxy-2#-Fluoro"
misc_feature 20..21
/note="n stands for thymidine"
misc_feature 21
/note="3#-3 attached terminal deoxybasic moiety, inverted
abasic, inverted nucleotide or other terminal cap that is
optionally present"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 1.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1011 GAACACAAGAGCUGCU 1029
DB 1 GAACACAAGAGCUGCT 19

RESULT 332
LOCUS CS096495/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 320 from Patent WO2005045040.
ACCESSION CS096495
VERSION CS096495.1 GI:66952959
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siRNA)
Patent: WO 2005045040-A 320 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

JOURNAL 1..21
FEATURES
source 1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: sirna antisense
region"

misc_feature 1..2
/note="2#-deoxy"
misc_feature 3
/note="2#-deoxy-2#-Fluoro"
misc_feature 4..5
/note="2#-deoxy"
misc_feature 6
/note="2#-deoxy-2#-Fluoro"
misc_feature 7
/note="2#-deoxy"
misc_feature 8..9
/note="2#-deoxy-2#-Fluoro"
misc_feature 10
/note="2#-deoxy"
misc_feature 11..12
/note="2#-deoxy-2#-Fluoro"
misc_feature 13
/note="2#-deoxy"
misc_feature 14..15
/note="2#-deoxy-2#-Fluoro"
misc_feature 16
/note="2#-deoxy"
misc_feature 17..19
/note="2#-deoxy-2#-Fluoro"
misc_feature 20..21
/note="n stands for thymidine"
misc_feature 20
/note="Phosphorothioate or Phosphordithioate
3#-Internucleotide linkage (optionally present)"
misc_feature 21
/note="3#-3 attached terminal glyceryl moiety or inverted

deoxybasic (optional y present)"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 1.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1011 GAACACAAGAGCUGCU 1029
DB 19 GAACACAAGAGCUGCT 1

RESULT 333
LOCUS AX511437 20 bp DNA linear PAT 27-SEP-2002
DEFINITION Sequence 1 from Patent WO0246421.
ACCESSION AX511437
VERSION AX511437.1 GI:23392308
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Wees, J. and Yamada, M.
TITLE Methods and compositions for analysis of m3 muscarinic
acetylcholine receptors
Patent: WO 0246421-A 1 13-JUN-2002;
JOURNAL THE DEPARTMENT OF HEALTH AND HUMAN SERVICES (US)
Location/Qualifiers

FEATURES
source 1..20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Synthetic"

Query Match 1.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 941 GGUCCACACCAAGAGCTGG 960
DB 1 GGTTCCACCAAGAGCTGG 20

RESULT 334
LOCUS AX298730 20 bp DNA linear PAT 26-NOV-2001
DEFINITION Sequence 364 from Patent WO0183749.
ACCESSION AX298730
VERSION AX298730.1 GI:17128720
KEYWORDS
SOURCE Mus sp.
ORGANISM Mus sp.

REFERENCE 1
AUTHORS Bachmanov, A.A., Beauchamp, G.K., Chatterjee, A., de Jong, P.J., Li, S.,
Li, X., Ohmen, J.D., Reed, D.R., Ross, D., and Tordoff, M.G.
TITLE Gene and sequence variation associated with sensing carbohydrate
compounds and other sweeteners
Patent: WO 0183749-A 364 08-NOV-2001;
JOURNAL WARNER-LAMBERT COMPANY (US); The Monell Chemical Senses Center
(US)
Location/Qualifiers

FEATURES
source 1..20
/organism="Mus sp."
/mol_type="unassigned DNA"
/db_xref="taxon:10095"

Query Match 1.0%; Score 18; DB 1; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.3e+02;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Acid (siNA)
JOURNAL Patent: WO 2005045040-A 317 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
3
/note="2#-deoxy-2#-Fluoro"
6
/note="2#-deoxy-2#-Fluoro"
8. .9
/note="2#-deoxy-2#-Fluoro"
11. .12
/note="2#-deoxy-2#-Fluoro"
14. .15
/note="2#-deoxy-2#-Fluoro"
17. .19
/note="2#-deoxy-2#-Fluoro"
20. .21
/note="n stands for thymidine"
20
/note="Phosphorothioate or Phosphorodithioate
3#-Internucleotide linkage (option a 1ly present)"
21
/note="3#-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionall y present)"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 1.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1011 GAACAACAUGAUGCUGCU 1029
DB 19 GAACAACAATGATGCTGCT 1
RESULT 330
CS096493 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096493
DEFINITION Sequence 318 from Patent WO2005045040.
ACCESSION CS096493
VERSION CS096493.1 GI:66952957
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswigen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 318 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
1. .3
/note="2#-deoxy"
1
/note="5#-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present"
4
/note="2#-deoxy-2#-Fluoro"
5. .6
misc_feature
misc_feature
misc_feature
misc_feature
misc_feature
misc_feature

/note="2#-deoxy"
7
/note="2#-deoxy-2#-Fluoro"
8. .9
/note="2#-deoxy"
10
/note="2#-deoxy-2#-Fluoro"
11. .12
/note="2#-deoxy"
13
/note="2#-deoxy-2#-Fluoro"
14
/note="2#-deoxy"
15. .16
/note="2#-deoxy-2#-Fluoro"
17
/note="2#-deoxy"
18. .19
/note="2#-deoxy-2#-Fluoro"
20. .21
/note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 1.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 1011 GAACAACAUGAUGCUGCU 1029
DB 1 GAACAACAATGATGCTGCT 19
RESULT 331
CS096494 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096494
DEFINITION Sequence 319 from Patent WO2005045040.
ACCESSION CS096494
VERSION CS096494.1 GI:66952958
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswigen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 319 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
1
/note="5#-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present"
4
/note="2#-deoxy-2#-Fluoro"
7
/note="2#-deoxy-2#-Fluoro"
10
/note="2#-deoxy-2#-Fluoro"
13
/note="2#-deoxy-2#-Fluoro"
15. .16
/note="2#-deoxy-2#-Fluoro"
misc_feature
misc_feature
misc_feature
misc_feature
misc_feature
misc_feature

Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 78.9%; Pred. No. 1.1e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1011 GAACAACAUGAUGCUGCU 1029
 |||||:|:|:|:|:|:|:
 1 GAACAACAATGATGCTGCT 19

Db 19 GAACAACAATGATGCTGCT 1

RESULT 327
 CS096490/c 21 bp RNA linear PAT 03-JUN-2005
 LOCUS Sequence 315 from Patent WO2005045040.
 DEFINITION CS096490
 ACCESSION CS096490
 VERSION CS096490.1 GI:66952954
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 315 19-MAY-2005;
 Sina Therapeutics, Inc. (US)
 Location/Qualifiers

FEATURES
 source
 1..21
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"

misc_feature
 1..2 /note="2#-O-Methyl"
 3 /note="2#-deoxy-2#-Fluoro"
 4..5 /note="2#-O-Methyl"
 6 /note="2#-deoxy-2#-Fluoro"
 7 /note="2#-O-Methyl"
 8..9 /note="2#-O-Methyl"
 10 /note="2#-deoxy-2#-Fluoro"
 11..12 /note="2#-O-Methyl"
 13 /note="2#-deoxy-2#-Fluoro"
 14..15 /note="2#-O-Methyl"
 16 /note="2#-deoxy-2#-Fluoro"
 17..19 /note="2#-O-Methyl"
 20..21 /note="2#-deoxy-2#-Fluoro"
 /note="n stands for thymidine"
 /note="Phosphorothioate or Phosphorodithioate 3#-Internucleotide Linkage (optionally present)"
 21 /note="3#-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)"

Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 78.9%; Pred. No. 1.1e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1011 GAACAACAUGAUGCUGCU 1029
 |||||:|:|:|:|:|:|:
 1 GAACAACAATGATGCTGCT 19

Db 19 GAACAACAATGATGCTGCT 1

RESULT 328
 CS096491 21 bp RNA linear PAT 03-JUN-2005
 LOCUS Sequence 316 from Patent WO2005045040.
 DEFINITION CS096491
 ACCESSION CS096491
 VERSION CS096491.1 GI:66952955
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 316 19-MAY-2005;
 Sina Therapeutics, Inc. (US)
 Location/Qualifiers

FEATURES
 source
 1..21
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA sense region"

misc_feature
 1 /note="5#-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present"
 4 /note="2#-O-Methyl or 2#-deoxy-2#-Fluoro"
 7 /note="2#-O-Methyl or 2#-deoxy-2#-Fluoro"
 10 /note="2#-O-Methyl or 2#-deoxy-2#-Fluoro"
 13 /note="2#-O-Methyl or 2#-deoxy-2#-Fluoro"
 15..16 /note="2#-O-Methyl or 2#-deoxy-2#-Fluoro"
 18..19 /note="2#-O-Methyl or 2#-deoxy-2#-Fluoro"
 20..21 /note="2#-O-Methyl or 2#-deoxy-2#-Fluoro"
 /note="n stands for thymidine"
 21 /note="3#-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present"

Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 78.9%; Pred. No. 1.1e+02;
 Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1011 GAACAACAUGAUGCUGCU 1029
 |||||:|:|:|:|:|:|:
 1 GAACAACAATGATGCTGCT 19

Db 19 GAACAACAATGATGCTGCT 1

RESULT 329
 CS096492 21 bp RNA linear PAT 03-JUN-2005
 LOCUS Sequence 317 from Patent WO2005045040.
 DEFINITION CS096492
 ACCESSION CS096492
 VERSION CS096492.1 GI:66952956
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic

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Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1715 AGUACGACGAGACAGUC 1733
    ||:|||||:|||||:|
Db 19 AGTACCAGCAGACAGAGTC 1

RESULT 324
CS096487 CS096487 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 312 from Patent WO2005045040.
ACCESSION CS096487
VERSION CS096487.1 GI:66952951
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 312 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
misc_feature 1
/note="5#-3 attached terminal deoxyabasic moiety, inverted
abasic, inverted nucleotide or other terminal cap that is
optionally present"
20..21
misc_feature /note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety, inverted
abasic, inverted nucleotide or other terminal cap that is
optionally present"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 1.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1011 GAACAACAUAUGUCUGCU 1029
    |||:|||||:|||||:|
Db 1 GAACAACAATGATGCTGCT 19

RESULT 325
CS096488 CS096488 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096488/c
DEFINITION Sequence 313 from Patent WO2005045040.
ACCESSION CS096488
VERSION CS096488.1 GI:66952952
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 313 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
20..21
misc_feature /note="n stands for thymidine"
20
/note="Phosphorothioate or Phosphorodithioate
3#-Internucleotide Linkage (optionally present)"
21
/note="3#-3 attached terminal glyceryl moiety or inverted
deoxyabasic (optionally present)"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 1.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1011 GAACAACAUAUGUCUGCU 1029
    |||:|||||:|||||:|
Db 19 GAACAACAATGATGCTGCT 1

RESULT 326
CS096489 CS096489 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096489
DEFINITION Sequence 314 from Patent WO2005045040.
ACCESSION CS096489
VERSION CS096489.1 GI:66952953
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 314 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
1..3
misc_feature /note="2#-O-Methyl"
4
/note="2#-deoxy-2#-Fluoro"
5..6
misc_feature /note="2#-O-Methyl"
7
/note="2#-deoxy-2#-Fluoro"
8..9
misc_feature /note="2#-O-Methyl"
10
/note="2#-deoxy-2#-Fluoro"
11..12
misc_feature /note="2#-O-Methyl"
13
/note="2#-deoxy-2#-Fluoro"
14
/note="2#-O-Methyl"
15..16
misc_feature /note="2#-deoxy-2#-Fluoro"
17
/note="2#-O-Methyl"
18..19
misc_feature /note="2#-deoxy-2#-Fluoro"
20..21
misc_feature /note="n stands for thymidine"
20
/note="Phosphorothioate or Phosphorodithioate
3#-Internucleotide Linkage (option a lly present)"
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RESULT 320
LOCUS CS096474 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 299 from Patent WO2005045040.
ACCESSION CS096474
VERSION CS096474.1 GI:66952947
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 299 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature
20
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02; Indels 0; Gaps 0;
Matches 18; Conservative 1; Mismatches 0;
QY 975 GCAGUGAGCAAGACCAC 993
DB 19 GCAGATGACCAAGACCAC 1

RESULT 321
LOCUS CS096475 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 300 from Patent WO2005045040.
ACCESSION CS096475
VERSION CS096475.1 GI:66952948
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 300 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature
20
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02; Indels 0; Gaps 0;
Matches 18; Conservative 1; Mismatches 0;
QY 975 GCAGUGAGCAAGACCAC 993
DB 19 GCAGATGACCAAGACCAC 1

DB 19 AGCAGTACCAGCAGAGACA 1

RESULT 322
LOCUS CS096476 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 301 from Patent WO2005045040.
ACCESSION CS096476
VERSION CS096476.1 GI:66952949
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 301 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature
20
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02; Indels 0; Gaps 0;
Matches 17; Conservative 2; Mismatches 0;
QY 1714 CAGUACCAGCAGACAGU 1732
DB 19 CAGTACCAGCAGACAGT 1

RESULT 323
LOCUS CS096477 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 302 from Patent WO2005045040.
ACCESSION CS096477
VERSION CS096477.1 GI:66952950
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 302 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
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1. 21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
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20
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02; Indels 0; Gaps 0;
Matches 17; Conservative 2; Mismatches 0;
QY 1714 CAGUACCAGCAGACAGU 1732
DB 19 CAGTACCAGCAGACAGT 1

VERSION CS096470.1 GI:66952943
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 295 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .21
misc_feature 20 /organism="synthetic construct"
misc_feature 21 /mol_type="unassigned RNA"
misc_feature 21 /db_xref="taxon:32630"
misc_feature 21 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACCCUGCCUU 35
19 ACAGTCAACCTCGCCTT 1

Db 19 ACAGTCAACCTCGCCTT 1

RESULT 317
LOCUS CS096471 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 296 from Patent WO2005045040.
ACCESSION CS096471
VERSION CS096471.1 GI:66952944
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 296 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .21
misc_feature 20 /organism="synthetic construct"
misc_feature 21 /mol_type="unassigned RNA"
misc_feature 21 /db_xref="taxon:32630"
misc_feature 21 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACCCUGCCUUUU 39
19 TACAACCTCGCCTTCTT 1

Db 19 TACAACCTCGCCTTCTT 1

RESULT 318
LOCUS CS096472 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 297 from Patent WO2005045040.
ACCESSION CS096472
VERSION CS096472.1 GI:66952945
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 297 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .21
misc_feature 20 /organism="synthetic construct"
misc_feature 21 /mol_type="unassigned RNA"
misc_feature 21 /db_xref="taxon:32630"
misc_feature 21 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUAAAGCCUGGCC 335
19 TCCTCTTAAGCCTGCGCTG 1

Db 19 TCCTCTTAAGCCTGCGCTG 1

LOCUS CS096473 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 298 from Patent WO2005045040.
ACCESSION CS096473
VERSION CS096473.1 GI:66952946
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 298 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .21
misc_feature 20 /organism="synthetic construct"
misc_feature 21 /mol_type="unassigned RNA"
misc_feature 21 /db_xref="taxon:32630"
misc_feature 21 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUUCUCUAAAGCCUGGCC 333
19 CTTCCTTTAAGCCTGACC 1

Db 19 CTTCCTTTAAGCCTGACC 1

RESULT 319
LOCUS CS096473 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 298 from Patent WO2005045040.
ACCESSION CS096473
VERSION CS096473.1 GI:66952946
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 298 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .21
misc_feature 20 /organism="synthetic construct"
misc_feature 21 /mol_type="unassigned RNA"
misc_feature 21 /db_xref="taxon:32630"
misc_feature 21 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUAAAGCCUGGCC 335
19 TCCTCTTAAGCCTGCGCTG 1

Db 19 TCCTCTTAAGCCTGCGCTG 1


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misc_feature /note="2#-deoxy-2#-Fluoro"
14 /note="2#-O-methyl"
misc_feature 15.16
misc_feature /note="2#-deoxy-2#-Fluoro"
17 /note="2#-O-methyl"
misc_feature 18.19
misc_feature /note="2#-deoxy-2#-Fluoro"
20 /note="n stands for thymidine"
misc_feature 21
/note="3#-3 attached terminal deoxyabasic moiety"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1712 AGCAGUACGACGAGACA 1730
Db 19 AGCAGTACGACGAGACACA 1

RESULT 314
CS096468/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 293 from Patent WO2005045040.
DEFINITION CS096468
ACCESSION CS096468
VERSION CS096468.1 GI:66952941
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 293 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1.21
Location/Qualifiers
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
misc_feature 1
/note="2#-O-methyl"
2.3
misc_feature /note="2#-deoxy-2#-Fluoro"
4
misc_feature /note="2#-O-methyl"
5.9
misc_feature /note="2#-deoxy-2#-Fluoro"
10
misc_feature /note="2#-O-methyl"
11.12
misc_feature /note="2#-deoxy-2#-Fluoro"
13.14
misc_feature /note="2#-O-methyl"
15
misc_feature /note="2#-deoxy-2#-Fluoro"
16
misc_feature /note="2#-O-methyl"
17.18
misc_feature /note="2#-deoxy-2#-Fluoro"
19
misc_feature /note="2#-O-methyl"
20
misc_feature /note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety"
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Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1714 CAGUACGACGACGAGACGU 1732
Db 19 CAGTACGACGACGACGAGT 1

RESULT 315
CS096469/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 294 from Patent WO2005045040.
DEFINITION CS096469
ACCESSION CS096469
VERSION CS096469.1 GI:66952942
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 294 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1.21
Location/Qualifiers
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
misc_feature 1.2
/note="2#-O-methyl"
3.4
misc_feature /note="2#-deoxy-2#-Fluoro"
5
misc_feature /note="2#-O-methyl"
6.10
misc_feature /note="2#-deoxy-2#-Fluoro"
11
misc_feature /note="2#-O-methyl"
12.13
misc_feature /note="2#-deoxy-2#-Fluoro"
14.15
misc_feature /note="2#-O-methyl"
16
misc_feature /note="2#-deoxy-2#-Fluoro"
17
misc_feature /note="2#-O-methyl"
18.19
misc_feature /note="2#-deoxy-2#-Fluoro"
20
misc_feature /note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1715 AGUACGACGACGAGACGUC 1733
Db 19 AGTACGACGACGACGAGTC 1

RESULT 316
CS096470/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 295 from Patent WO2005045040.
DEFINITION CS096470
```

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RESULT 311
CS096465/c      21 bp  RNA      linear  PAT 03-JUN-2005
DEFINITION      Sequence 290 from Patent WO2005045040.
ACCESSION       CS096465
VERSION         CS096465.1  GI:66952938
KEYWORDS
SOURCE          synthetic construct
ORGANISM        synthetic construct
REFERENCE       1
AUTHORS         Richards,I. and Macswiggen,J.
TITLE           RNA interference mediated inhibition of cholinergic muscarinic
                receptor (CHRM3) gene expression using short interfering Nucleic
                Acid (siNA)
JOURNAL         Patent: WO 2005045040-A 290 19-MAY-2005;
                Sirta Therapeutics, Inc. (US)
FEATURES
source          1..21
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Description of Artificial Sequence: siNA antisense
                region"
misc_feature     1 /note="2#-deoxy-2#-Fluoro"
misc_feature     2..4 /note="2#-O-methyl"
misc_feature     5..6 /note="2#-deoxy-2#-Fluoro"
misc_feature     7..9 /note="2#-O-methyl"
misc_feature     10..12 /note="2#-deoxy-2#-Fluoro"
misc_feature     13..19 /note="2#-O-methyl"
misc_feature     20 /note="2#-O-methyl"
misc_feature     21 /note="n stands for thymidine"
                /note="3#-3 attached terminal deoxybasic moiety"
Query Match     1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY              317 UCCUCUUAAGCCUGCCUG 335
Db              19 TCCTCTTAAGCCTGCGCTG 1
                :|||:|||||:|||||
                :|||:|||||:|||||

RESULT 312
CS096466/c      21 bp  RNA      linear  PAT 03-JUN-2005
DEFINITION      Sequence 291 from Patent WO2005045040.
ACCESSION       CS096466
VERSION         CS096466.1  GI:66952939
KEYWORDS
SOURCE          synthetic construct
ORGANISM        synthetic construct
REFERENCE       1
AUTHORS         Richards,I. and Macswiggen,J.
TITLE           RNA interference mediated inhibition of cholinergic muscarinic
                receptor (CHRM3) gene expression using short interfering Nucleic
                Acid (siNA)
JOURNAL         Patent: WO 2005045040-A 291 19-MAY-2005;
                Sirta Therapeutics, Inc. (US)
FEATURES
source          1..21
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Description of Artificial Sequence: siNA antisense
                region"
misc_feature     1 /note="2#-deoxy-2#-Fluoro"
misc_feature     2 /note="2#-O-methyl"
misc_feature     3..7 /note="2#-deoxy-2#-Fluoro"
misc_feature     8 /note="2#-O-methyl"
misc_feature     9..10 /note="2#-deoxy-2#-Fluoro"
misc_feature     11..12 /note="2#-O-methyl"
misc_feature     13 /note="2#-O-methyl"

Query Match     1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY              317 UCCUCUUAAGCCUGCCUG 335
Db              19 TCCTCTTAAGCCTGCGCTG 1
                :|||:|||||:|||||
                :|||:|||||:|||||

RESULT 313
CS096467/c      21 bp  RNA      linear  PAT 03-JUN-2005
DEFINITION      Sequence 292 from Patent WO2005045040.
ACCESSION       CS096467
VERSION         CS096467.1  GI:66952940
KEYWORDS
SOURCE          synthetic construct
ORGANISM        synthetic construct
REFERENCE       1
AUTHORS         Richards,I. and Macswiggen,J.
TITLE           RNA interference mediated inhibition of cholinergic muscarinic
                receptor (CHRM3) gene expression using short interfering Nucleic
                Acid (siNA)
JOURNAL         Patent: WO 2005045040-A 292 19-MAY-2005;
                Sirta Therapeutics, Inc. (US)
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                /db_xref="taxon:32630"
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                region"
misc_feature     1 /note="2#-deoxy-2#-Fluoro"
misc_feature     2 /note="2#-O-methyl"
misc_feature     3..7 /note="2#-deoxy-2#-Fluoro"
misc_feature     8 /note="2#-O-methyl"
misc_feature     9..10 /note="2#-deoxy-2#-Fluoro"
misc_feature     11..12 /note="2#-O-methyl"
misc_feature     13 /note="2#-O-methyl"
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                /note="Description of Artificial Sequence: siNA antisense
                region"
misc_feature     1 /note="2#-O-methyl"
misc_feature     2 /note="2#-deoxy-2#-Fluoro"
misc_feature     3..4 /note="2#-O-methyl"
misc_feature     5..8 /note="2#-deoxy-2#-Fluoro"
misc_feature     9..10 /note="2#-O-methyl"
misc_feature     11..13 /note="2#-deoxy-2#-Fluoro"
misc_feature     14 /note="2#-O-methyl"
misc_feature     15..17 /note="2#-deoxy-2#-Fluoro"
misc_feature     18 /note="2#-O-methyl"
misc_feature     19 /note="2#-deoxy-2#-Fluoro"
misc_feature     20 /note="n stands for thymidine"
misc_feature     21 /note="3#-3 attached terminal deoxybasic moiety"
Query Match     1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY              975 GCAGAUAGACCAAGACCAC 993
Db              19 GCAGATGACCAAGACCAC 1
                |||||:|||||:|||||
                |||||:|||||:|||||

RESULT 313
CS096467/c      21 bp  RNA      linear  PAT 03-JUN-2005
DEFINITION      Sequence 292 from Patent WO2005045040.
ACCESSION       CS096467
VERSION         CS096467.1  GI:66952940
KEYWORDS
SOURCE          synthetic construct
ORGANISM        synthetic construct
REFERENCE       1
AUTHORS         Richards,I. and Macswiggen,J.
TITLE           RNA interference mediated inhibition of cholinergic muscarinic
                receptor (CHRM3) gene expression using short interfering Nucleic
                Acid (siNA)
JOURNAL         Patent: WO 2005045040-A 292 19-MAY-2005;
                Sirta Therapeutics, Inc. (US)
FEATURES
source          1..21
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misc_feature     2 /note="2#-O-methyl"
misc_feature     3..7 /note="2#-deoxy-2#-Fluoro"
misc_feature     8 /note="2#-O-methyl"
misc_feature     9..10 /note="2#-deoxy-2#-Fluoro"
misc_feature     11..12 /note="2#-O-methyl"
misc_feature     13 /note="2#-O-methyl"
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JOURNAL Patent: WO 2005045040-A 287 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature
1. .5
/note="2#-O-methyl"
6
/note="2#-deoxy-2#-Fluoro"
misc_feature
7. .10
/note="2#-O-methyl"
11. .12
/note="2#-deoxy-2#-Fluoro"
misc_feature
13
/note="2#-O-methyl"
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misc_feature
15
/note="2#-O-methyl"
16. .17
/note="2#-deoxy-2#-Fluoro"
misc_feature
18
/note="2#-O-methyl"
19
/note="2#-deoxy-2#-Fluoro"
misc_feature
20
/note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 17 ACAGUACACCTCGCCUUU 35
|||||:|||||:|||||:
DB 19 ACAGTACACCTCGCCTT 1
RESULT 309
CS096463/C 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096463 Sequence 288 from Patent WO2005045040.
ACCESSION CS096463
VERSION CS096463.1 GI:66952936
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE
1
AUTHORS
TITLE
Richards, I. and Macswigen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 288 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
FEATURES
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/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature
1. .3
/note="2#-O-methyl"
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/note="2#-deoxy-2#-Fluoro"
5. .9
/note="2#-O-methyl"
misc_feature

misc_feature
10
/note="2#-deoxy-2#-Fluoro"
11. .14
/note="2#-O-methyl"
misc_feature
15. .16
/note="2#-deoxy-2#-Fluoro"
misc_feature
17
/note="2#-O-methyl"
18
/note="2#-deoxy-2#-Fluoro"
misc_feature
19
/note="2#-O-methyl"
20
/note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
QY 21 UACAACTCCTCGCCUUGUU 39
:|||||:|||||:|||||:
DB 19 TACAACTCCTCGCCTTGT 1
RESULT 310
CS096464/C 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096464 Sequence 289 from Patent WO2005045040.
ACCESSION CS096464
VERSION CS096464.1 GI:66952937
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE
1
AUTHORS
TITLE
Richards, I. and Macswigen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 289 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
FEATURES
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/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature
1. .2
/note="2#-O-methyl"
3. .4
/note="2#-deoxy-2#-Fluoro"
5. .7
/note="2#-O-methyl"
8. .10
/note="2#-deoxy-2#-Fluoro"
11. .19
/note="2#-O-methyl"
20
/note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 315 CUUCUCUUAAGCGCCG 333
|::|||:|::|||:|::|||:
DB 19 CTCCTCTTAAGCCTGACC 1

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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
misc_feature
20..21
/note="n stands for thymidine"
misc_feature
20
/note="Phosphorothioate 3'-Internucleotide linkage"

Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY
975 GCAGUGACGACGACGAC 993
|||||:|||||:|||||:
19 GCAGATGACGACGACGAC 1

RESULT 305
LOCUS CS096459/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 284 from Patent WO2005045040.
ACCESSION CS096459
VERSION CS096459.1 GI:66952932
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS
TITLE
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL
Patent: WO 2005045040-A 284 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
FEATURES
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
20..21
/note="n stands for thymidine"
misc_feature
20
/note="Phosphorothioate 3'-Internucleotide linkage"
misc_feature
20
/note="n stands for thymidine"

Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY
1712 AGCAGUACGACGACGACA 1730
|||||:|||||:|||||:
19 AGCAGTACGACGACGACACA 1

RESULT 306
LOCUS CS096460/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 285 from Patent WO2005045040.
ACCESSION CS096460
VERSION CS096460.1 GI:66952933
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS
TITLE
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL
Patent: WO 2005045040-A 285 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
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/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
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/note="n stands for thymidine"
misc_feature
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/note="Phosphorothioate 3'-Internucleotide linkage"

Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY
1714 CAGUACGACGACGACAGU 1732
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19 CAGTACGACGACGACAGAGT 1

RESULT 307
LOCUS CS096461/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 286 from Patent WO2005045040.
ACCESSION CS096461
VERSION CS096461.1 GI:66952934
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS
TITLE
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL
Patent: WO 2005045040-A 286 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
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/mol_type="unassigned RNA"
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/note="Description of Artificial Sequence: siNA antisense
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/note="n stands for thymidine"
misc_feature
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/note="Phosphorothioate 3'-Internucleotide linkage"
misc_feature
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/note="n stands for thymidine"

Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY
1715 AGUACGACGACGACAGUC 1733
|||||:|||||:|||||:
19 AGTACGACGACGACAGAGTC 1

RESULT 308
LOCUS CS096462/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 287 from Patent WO2005045040.
ACCESSION CS096462
VERSION CS096462.1 GI:66952935
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS
TITLE
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
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/note="Phosphorothioate 3'-Internucleotide Linkage"
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY      17 ACAGUACACCGCCUUU 35
      |||:|||||:|||||:
Db      19 ACAGTACACCTGCGCTT 1

RESULT 301
CS096455/c      21 bp      RNA      linear      PAT 03-JUN-2005
LOCUS      CS096455
DEFINITION      Sequence 280 from Patent WO2005045040.
ACCESSION      CS096455
VERSION      CS096455.1 GI:66952928
KEYWORDS
SOURCE
ORGANISM      synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS      1 Richards, I. and Macswiggen, J.
TITLE      RNA interference mediated inhibition of cholinergic muscarinic
      receptor (CHRM3) gene expression using short interfering Nucleic
      Acid (siNA)
JOURNAL      Patent: WO 2005045040-A 280 19-MAY-2005;
      Sirta Therapeutics, Inc. (US)
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misc_feature      20..21
      /note="n stands for thymidine"
misc_feature      20
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Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
QY      21 UACACCCUCCUUCUUU 39
      :|||||:|||||:
Db      19 TACACCTGCGCTTGT 1

RESULT 302
CS096456/c      21 bp      RNA      linear      PAT 03-JUN-2005
LOCUS      CS096456
DEFINITION      Sequence 281 from Patent WO2005045040.
ACCESSION      CS096456
VERSION      CS096456.1 GI:66952929
KEYWORDS
SOURCE
ORGANISM      synthetic construct
      synthetic construct
      other sequences; artificial sequences.
REFERENCE
AUTHORS      1 Richards, I. and Macswiggen, J.
TITLE      RNA interference mediated inhibition of cholinergic muscarinic
      receptor (CHRM3) gene expression using short interfering Nucleic
      Acid (siNA)
JOURNAL      Patent: WO 2005045040-A 281 19-MAY-2005;
      Sirta Therapeutics, Inc. (US)
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source      1..21
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      /note="Description of Artificial Sequence: siNA antisense
      region"
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      /note="n stands for thymidine"
misc_feature      20
      /note="Phosphorothioate 3'-Internucleotide Linkage"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY      315 CUUCUCUUAAGCCUGCC 333
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Db      19 CTTCCTTAAGCCTGCGC 1

RESULT 303
CS096457/c      21 bp      RNA      linear      PAT 03-JUN-2005
LOCUS      CS096457
DEFINITION      Sequence 282 from Patent WO2005045040.
ACCESSION      CS096457
VERSION      CS096457.1 GI:66952930
KEYWORDS
SOURCE
ORGANISM      synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS      1 Richards, I. and Macswiggen, J.
TITLE      RNA interference mediated inhibition of cholinergic muscarinic
      receptor (CHRM3) gene expression using short interfering Nucleic
      Acid (siNA)
JOURNAL      Patent: WO 2005045040-A 282 19-MAY-2005;
      Sirta Therapeutics, Inc. (US)
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misc_feature      20..21
      /note="n stands for thymidine"
misc_feature      20
      /note="Phosphorothioate 3'-Internucleotide Linkage"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY      317 UCCUCUUAAGCCUGCCUG 335
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Db      19 TCCTCTTAAGCCTGCGCTG 1

RESULT 304
CS096458/c      21 bp      RNA      linear      PAT 03-JUN-2005
LOCUS      CS096458
DEFINITION      Sequence 283 from Patent WO2005045040.
ACCESSION      CS096458
VERSION      CS096458.1 GI:66952931
KEYWORDS
SOURCE
ORGANISM      synthetic construct
      synthetic construct
      other sequences; artificial sequences.
REFERENCE
AUTHORS      1 Richards, I. and Macswiggen, J.
TITLE      RNA interference mediated inhibition of cholinergic muscarinic
      receptor (CHRM3) gene expression using short interfering Nucleic
      Acid (siNA)
JOURNAL      Patent: WO 2005045040-A 283 19-MAY-2005;
      Sirta Therapeutics, Inc. (US)
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CS096451
LOCUS CS096451 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 276 from Patent WO2005045040.
ACCESSION CS096451
VERSION CS096451.1 GI:66952924
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 276 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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20. .21
/note="n stands for thymidine"
misc_feature
21 /note="3#-3 attached terminal deoxyabasic moiety"
Query Match
Best Local Similarity 94.7%; Score 19; DB 1; Length 21;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1712 AGCAGUACGACGACAGACA 1730
Db 1 AGCAGTACCGACGACAGACA 19
RESULT 298
LOCUS CS096452 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 277 from Patent WO2005045040.
ACCESSION CS096452
VERSION CS096452.1 GI:66952925
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 277 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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20. .21
/note="n stands for thymidine"
misc_feature
21 /note="3#-3 attached terminal deoxyabasic moiety"
Query Match
Best Local Similarity 89.5%; Score 19; DB 1; Length 21;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1714 CAGUACGACGACGACAGU 1732
Db 1 CAGTACCGACGACGACAGT 19
RESULT 299
LOCUS CS096453 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 278 from Patent WO2005045040.
ACCESSION CS096453
VERSION CS096453.1 GI:66952926
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 278 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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20. .21
/note="n stands for thymidine"
misc_feature
21 /note="3#-3 attached terminal deoxyabasic moiety"
Query Match
Best Local Similarity 89.5%; Score 19; DB 1; Length 21;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 1715 AGUACGACGACGACAGUC 1733
Db 1 AGTACCGACGACGACAGTC 19
RESULT 300
LOCUS CS096454 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 279 from Patent WO2005045040.
ACCESSION CS096454
VERSION CS096454.1 GI:66952927
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 279 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/note="Description of Artificial Sequence: siNA antisense region"
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20. .21
/note="n stands for thymidine"
misc_feature
20 /note="3#-3 attached terminal deoxyabasic moiety"

JOURNAL Patent: WO 2005045040-A 272 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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misc_feature
20. .21
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
OY 21 UACAACUCCGCUUUGUTU 39
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1 TACAACCTGCGCTTGTTT 19
Db
RESULT 294
CS096448 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096448
DEFINITION Sequence 273 from Patent WO2005045040.
ACCESSION CS096448
VERSION CS096448.1 GI:66952921
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE
1 Richards, I. and Macswiggen, J.
TITLE -RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 273 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/note="5#-3 attached terminal deoxyabasic moiety"
misc_feature
20. .21
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
OY 315 CUUCUCUUAAGCGCCG 333
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1 CTTCCTTAAGCCTGACC 19
Db
RESULT 295
CS096449 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096449
DEFINITION Sequence 274 from Patent WO2005045040.
ACCESSION CS096449
VERSION CS096449.1 GI:66952922
KEYWORDS
SOURCE synthetic construct

ORGANISM synthetic construct
REFERENCE
1 Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 274 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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misc_feature
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/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 975 GCAGUGACCAAGACCAC 993
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1 GCAGATGACCAAGACCAC 19
Db
RESULT 297
CS096450 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096450
DEFINITION Sequence 275 from Patent WO2005045040.
ACCESSION CS096450
VERSION CS096450.1 GI:66952923
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE
1 Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 275 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/db_xref="taxon:32630"
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/note="5#-3 attached terminal deoxyabasic moiety"
misc_feature
20. .21
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY 975 GCAGUGACCAAGACCAC 993
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1 GCAGATGACCAAGACCAC 19
Db
RESULT 297

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misc_feature 10 /note="2#-deoxy-2#-fluoro"
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misc_feature 13..14 /note="2#-deoxy-2#-fluoro"
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misc_feature 16 /note="2#-deoxy-2#-fluoro"
misc_feature 17..18 /note="2#-O-methyl"
misc_feature 19 /note="2#-deoxy-2#-fluoro"
misc_feature 20..21 /note="2#-O-methyl"
misc_feature 20 /note="n stands for thymidine"
/note="Phosphorothioate 3#-Internucleotide linkage"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 1714 CAGUACGACGACGACG 1732
Db 19 CAGTACGACGACGACG 1

RESULT 291
LOCUS CS096445/C 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 270 from Patent WO2005045040.
ACCESSION CS096445
VERSION CS096445.1 GI:66952918
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 other sequences; artificial sequences.

AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 270 19-MAY-2005;
Sina Therapeutics, Inc. (US)

FEATURES
source Location/Qualifiers
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/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

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misc_feature 3..4 /note="2#-deoxy-2#-fluoro"
misc_feature 5 /note="2#-O-methyl"
misc_feature 6..10 /note="2#-deoxy-2#-fluoro"
misc_feature 11 /note="2#-O-methyl"
misc_feature 12..13 /note="2#-deoxy-2#-fluoro"
misc_feature 14..15 /note="2#-O-methyl"
misc_feature 16 /note="2#-deoxy-2#-fluoro"

misc_feature 17 /note="2#-O-methyl"
misc_feature 18..19 /note="2#-deoxy-2#-fluoro"
misc_feature 20..21 /note="2#-O-methyl"
misc_feature 20 /note="n stands for thymidine"
/note="Phosphorothioate 3#-Internucleotide linkage"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 1715 AGUACGACGACGACG 1733
Db 19 AGTACGACGACGACG 1

RESULT 292
LOCUS CS096446 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 271 from Patent WO2005045040.
ACCESSION CS096446
VERSION CS096446.1 GI:66952919
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 other sequences; artificial sequences.

AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 271 19-MAY-2005;
Sina Therapeutics, Inc. (US)

FEATURES
source Location/Qualifiers
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"

misc_feature 1 /note="5#-3 attached terminal deoxybasic moiety"
misc_feature 20..21 /note="n stands for thymidine"
misc_feature 21 /note="3#-3 attached terminal deoxybasic moiety"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Oy 17 ACAGUACAACGACCCUU 35
Db 1 ACAGTACAACCTCGCCTT 19

RESULT 293
LOCUS CS096447 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 272 from Patent WO2005045040.
ACCESSION CS096447
VERSION CS096447.1 GI:66952920
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 other sequences; artificial sequences.

AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

RESULT 288
 CS096442/c 21 bp RNA linear PAT 03-JUN-2005
 LOCUS CS096442
 DEFINITION Sequence 267 from Patent WO2005045040.
 ACCESSION CS096442
 VERSION CS096442.1 GI:66952915
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.
 REFERENCE
 AUTHORS 1 Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 267 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
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 misc_feature 2 /note="2#-deoxy-2#-fluoro"
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 misc_feature 5. .8 /note="2#-deoxy-2#-fluoro"
 misc_feature 9. .10 /note="2#-O-methyl"
 misc_feature 11. .13 /note="2#-deoxy-2#-fluoro"
 misc_feature 14 /note="2#-O-methyl"
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 misc_feature 20 /note="n stands for thymidine"
 /note="Phosphorothioate 3#-Internucleotide linkage"
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 94.7%; Pred. No. 1.1e+02; Indels 0; Gaps 0;
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Oy 975 GCAGUGACCAAGACCAC 993
 Db 19 GCAGATGACCAAGACCAC 1
 RESULT 289
 CS096443/c 21 bp RNA linear PAT 03-JUN-2005
 LOCUS CS096443
 DEFINITION Sequence 268 from Patent WO2005045040.
 ACCESSION CS096443
 VERSION CS096443.1 GI:66952916
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.
 REFERENCE
 AUTHORS 1 Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic

Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 268 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
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 /organism="synthetic construct"
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 /db_xref="taxon:32630"
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 misc_feature 1 /note="2#-deoxy-2#-fluoro"
 misc_feature 2 /note="2#-O-methyl"
 misc_feature 3. .7 /note="2#-deoxy-2#-fluoro"
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 misc_feature 20 /note="n stands for thymidine"
 /note="Phosphorothioate 3#-Internucleotide linkage"
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 94.7%; Pred. No. 1.1e+02; Indels 0; Gaps 0;
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Oy 1712 AGCAGUACCAAGACAGACA 1730
 Db 19 AGCAGTACCAAGACAGACA 1
 RESULT 290
 CS096444/c 21 bp RNA linear PAT 03-JUN-2005
 LOCUS CS096444
 DEFINITION Sequence 269 from Patent WO2005045040.
 ACCESSION CS096444
 VERSION CS096444.1 GI:66952917
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.
 REFERENCE
 AUTHORS 1 Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 269 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
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 1. .21 Location/Qualifiers
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"
 misc_feature 1 /note="2#-O-methyl"
 misc_feature 2. .3

SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE other sequences; artificial sequences.
AUTHORS 1
TITLE Richards, I. and Macswiggen, J.
JOURNAL RNA interference mediated inhibition of cholinergic muscarinic
Patent: WO 2005045040-A 264 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
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1. .21
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/db_xref="taxon:32630"
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/note="2#-deoxy-2#-fluoro"
5. .9
/note="2#-O-methyl"
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/note="2#-deoxy-2#-fluoro"
11. .14
/note="2#-O-methyl"
15. .16
/note="2#-deoxy-2#-fluoro"
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/note="2#-O-methyl"
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/note="2#-deoxy-2#-fluoro"
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/note="2#-O-methyl"
20. .21
/note="n stands for thymidine"
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/note="Phosphorothioate 3#-Internucleotide linkage"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
QY 21 UACAACUCCGCUUUGUU 39
Db 19 TACAACCTCGCCTTGTT 1
RESULT 286
LOCUS CS096440/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 265 from Patent WO2005045040.
ACCESSION CS096440
VERSION CS096440.1 GI:66952913
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 265 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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source
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/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

misc_feature 1. .2
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misc_feature 3. .4
/note="2#-deoxy-2#-fluoro"
misc_feature 5. .7
/note="2#-O-methyl"
misc_feature 8. .10
/note="2#-deoxy-2#-fluoro"
misc_feature 11. .19
/note="2#-O-methyl"
misc_feature 20. .21
/note="n stands for thymidine"
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/note="Phosphorothioate 3#-Internucleotide linkage"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 315 CUUCUCUUAAGCCUGGCC 333
Db 19 CTCCTTAAGCCTGACC 1
RESULT 287
LOCUS CS096441/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 266 from Patent WO2005045040.
ACCESSION CS096441
VERSION CS096441.1 GI:66952914
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 266 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/db_xref="taxon:32630"
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region"
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7. .9
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10. .12
/note="2#-deoxy-2#-fluoro"
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/note="2#-O-methyl"
20. .21
/note="n stands for thymidine"
20
/note="Phosphorothioate 3#-Internucleotide linkage"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 317 UCCUCUUAAGCCUGGCCUG 335
Db 19 TCCTTAAGCCTGACC 1

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16 /note="2#-deoxy-2#-fluoro"
misc_feature /note="2#-O-methyl"
17 .18 /note="2#-O-methyl"
misc_feature /note="2#-deoxy-2#-fluoro"
19 /note="2#-O-methyl"
misc_feature /note="2#-deoxy-2#-fluoro"
20 .21 /note="n stands for thymidine"
misc_feature /note="3#-3 attached terminal deoxyabasic moiety"
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Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGACGACGACG 1732
DB 1 CAGTACGACGACGACGACG 19

RESULT 283
CS096437 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 262 from Patent WO2005045040.
DEFINITION CS096437
ACCESSION CS096437
VERSION CS096437.1 GI:66952910
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 262 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
FEATURES
source
Location/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
1..2
/note="2#-O-methyl"
1 /note="5#-3 attached terminal deoxyabasic moiety"
3
/note="2#-deoxy-2#-fluoro"
4
/note="2#-O-methyl"
5..6
/note="2#-deoxy-2#-fluoro"
7..8
/note="2#-O-methyl"
9
/note="2#-deoxy-2#-fluoro"
10..14
/note="2#-O-methyl"
15
/note="2#-deoxy-2#-fluoro"
16..17
/note="2#-O-methyl"
18..19
/note="2#-deoxy-2#-fluoro"
20..21
/note="n stands for thymidine"
21
/note="3#-3 attached terminal deoxyabasic moiety"
1.1%; Score 19; DB 1; Length 21;

Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1715 ACUACGACGACGACGACGUC 1733
DB 1 AGTACGACGACGACGACGTC 19

RESULT 284
CS096438/C
LOCUS CS096438 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 263 from Patent WO2005045040.
ACCESSION CS096438
VERSION CS096438.1 GI:66952911
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 263 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
FEATURES
source
Location/Qualifiers
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
1..5
/note="2#-O-methyl"
6
/note="2#-deoxy-2#-fluoro"
7..10
/note="2#-O-methyl"
11..12
/note="2#-deoxy-2#-fluoro"
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/note="2#-O-methyl"
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/note="2#-deoxy-2#-fluoro"
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/note="2#-O-methyl"
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/note="2#-deoxy-2#-fluoro"
20..21
/note="n stands for thymidine"
20
/note="Phosphorothioate 3'-internucleotide linkage"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACACGCGCCUU 35
DB 19 ACAGTACACGCTGCCTT 1

RESULT 285
CS096439 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096439/C
DEFINITION Sequence 264 from Patent WO2005045040.
ACCESSION CS096439
VERSION CS096439.1 GI:66952912
KEYWORDS

JOURNAL Patent: WO 2005045040-A 259 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/mol_type="unassigned RNA"
/db_xref="taxon:32630"
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5#-3 attached terminal deoxyabasic moiety"
misc_feature
3. .5
/note="2#-deoxy-2#-fluoro"
misc_feature
6
/note="2#-deoxy-2#-fluoro"
misc_feature
7. .9
/note="2#-O-methyl"
misc_feature
10. .11
/note="2#-deoxy-2#-fluoro"
misc_feature
12. .15
/note="2#-O-methyl"
misc_feature
16. .17
/note="2#-deoxy-2#-fluoro"
misc_feature
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misc_feature
19
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20. .21
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match
Best Local Similarity 94.7%; Score 19; DB 1; Length 21;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGATGACCAAGACCAC 993
DB 1 GCAGATGACCAAGACCAC 19
RESULT 281
CS096435
LOCUS CS096435 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 260 from Patent WO2005045040.
ACCESSION CS096435
VERSION CS096435.1 GI:66952908
KEYWORDS
SOURCE .
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 260 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
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misc_feature
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/note="5#-3 attached terminal deoxyabasic moiety"
misc_feature
3

misc_feature
4. .5
/note="2#-O-methyl"
misc_feature
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/note="2#-deoxy-2#-fluoro"
misc_feature
7
/note="2#-O-methyl"
misc_feature
8. .9
/note="2#-deoxy-2#-fluoro"
misc_feature
10. .11
/note="2#-O-methyl"
misc_feature
12
/note="2#-deoxy-2#-fluoro"
misc_feature
13. .17
/note="2#-O-methyl"
misc_feature
18
/note="2#-deoxy-2#-fluoro"
misc_feature
19
/note="2#-O-methyl"
misc_feature
20. .21
/note="n stands for thymidine"
misc_feature
21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match
Best Local Similarity 94.7%; Score 19; DB 1; Length 21;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1712 AGCAGUACGACGAGACA 1730
DB 1 AGCAGTACGACGAGACCA 19
RESULT 282
CS096436
LOCUS CS096436 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 261 from Patent WO2005045040.
ACCESSION CS096436
VERSION CS096436.1 GI:66952909
KEYWORDS
SOURCE .
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 261 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature
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/note="2#-deoxy-2#-fluoro"
2. .3
5#-3 attached terminal deoxyabasic moiety"
misc_feature
4
/note="2#-O-methyl"
misc_feature
5
/note="2#-deoxy-2#-fluoro"
misc_feature
6. .7
/note="2#-O-methyl"
misc_feature
8. .9
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misc_feature
10
/note="2#-O-methyl"
misc_feature
11. .15
/note="2#-deoxy-2#-fluoro"

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misc_feature      /note="2#-O-methyl"
misc_feature      /note="2#-deoxy-2#-fluoro"
misc_feature      /note="n stands for thymidine"
misc_feature      /note="3#-3 attached terminal deoxyabasic moiety"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      21 UACACCGCGCCUUGUUU 39
Db      1 TACACCTCGCCTTGTGTT 19

RESULT 278
LOCUS      CS096432      21 bp      RNA
DEFINITION Sequence 257 from Patent WO2005045040.
ACCESSION  CS096432
VERSION     CS096432.1 GI:66952905
KEYWORDS
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Richards,I. and Macswiggen,J.
TITLE       RNA interference mediated inhibition of cholinergic muscarinic
            receptor (CHRM3) gene expression using short interfering Nucleic
            Acid (siNA)
            Patent: WO 2005045040-A 257 19-MAY-2005;
            Sirna Therapeutics, Inc. (US)
            Location/Qualifiers
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misc_feature      /db_xref="taxon:32630"
misc_feature      /note="Description of Artificial Sequence: siNA sense
            region"
misc_feature      1..9
misc_feature      /note="2#-deoxy-2#-fluoro"
misc_feature      10..12
misc_feature      /note="5#-3 attached terminal deoxyabasic moiety"
misc_feature      13..15
misc_feature      /note="2#-deoxy-2#-fluoro"
misc_feature      16..17
misc_feature      /note="2#-O-methyl"
misc_feature      18..19
misc_feature      /note="2#-deoxy-2#-fluoro"
misc_feature      20..21
misc_feature      /note="n stands for thymidine"
misc_feature      21
misc_feature      /note="3#-3 attached terminal deoxyabasic moiety"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

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QY      315 CUUCUCUUAAGCCUGCC 333
Db      1 CTCTCTTAAGCCTGGCC 19

RESULT 279
LOCUS      CS096433      21 bp      RNA
DEFINITION Sequence 258 from Patent WO2005045040.
ACCESSION  CS096433
VERSION     CS096433.1 GI:66952906
KEYWORDS
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Richards,I. and Macswiggen,J.
TITLE       RNA interference mediated inhibition of cholinergic muscarinic
            receptor (CHRM3) gene expression using short interfering Nucleic
            Acid (siNA)
            Patent: WO 2005045040-A 258 19-MAY-2005;
            Sirna Therapeutics, Inc. (US)
            Location/Qualifiers
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misc_feature      /mol_type="unassigned RNA"
misc_feature      /db_xref="taxon:32630"
misc_feature      /note="Description of Artificial Sequence: siNA sense
            region"
misc_feature      1..7
misc_feature      /note="2#-deoxy-2#-fluoro"
misc_feature      8..10
misc_feature      /note="5#-3 attached terminal deoxyabasic moiety"
misc_feature      11..13
misc_feature      /note="2#-O-methyl"
misc_feature      14..15
misc_feature      /note="2#-deoxy-2#-fluoro"
misc_feature      16..18
misc_feature      /note="2#-deoxy-2#-fluoro"
misc_feature      19
misc_feature      /note="2#-O-methyl"
misc_feature      20..21
misc_feature      /note="n stands for thymidine"
misc_feature      21
misc_feature      /note="3#-3 attached terminal deoxyabasic moiety"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      317 UCCUCUUAAGCCUGCCUG 335
Db      1 TCCTCTTAAGCCTGGCCTG 19

RESULT 280
LOCUS      CS096434      21 bp      RNA
DEFINITION Sequence 259 from Patent WO2005045040.
ACCESSION  CS096434
VERSION     CS096434.1 GI:66952907
KEYWORDS
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Richards,I. and Macswiggen,J.
TITLE       RNA interference mediated inhibition of cholinergic muscarinic
            receptor (CHRM3) gene expression using short interfering Nucleic
            Acid (siNA)

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RESULT 275
CS096429/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096429
DEFINITION Sequence 254 from Patent WO2005045040.
ACCESSION CS096429
VERSION CS096429.1 GI:66952902
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 254 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/note="2#-deoxy"
misc_feature 3. .4
/note="2#-deoxy-2'-fluoro"
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/note="2#-deoxy"
misc_feature 6. .10
/note="2#-deoxy-2'-fluoro"
misc_feature 11
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misc_feature 12. .13
/note="2#-deoxy-2'-fluoro"
misc_feature 14. .15
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misc_feature 17
/note="2#-deoxy"
misc_feature 18. .19
/note="2#-deoxy-2'-fluoro"
misc_feature 20. .21
/note="n stands for thymidine"
misc_feature 20
/note="Phosphorothioate 3'-Internucleotide Linkage"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 1715 AGUACGACGACAGACAGUC 1733
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Db 19 AGTACGACGACAGACAGCTC 1
RESULT 276
CS096430 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096430
DEFINITION Sequence 255 from Patent WO2005045040.
ACCESSION CS096430
VERSION CS096430.1 GI:66952903
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 254 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
misc_feature 1
/note="2#-deoxy-2'-fluoro"
misc_feature 5#-3 attached terminal deoxyabasic moiety"

JOURNAL Acid (siNA)
Patent: WO 2005045040-A 255 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/mol_type="unassigned RNA"
/db_xref="taxon:32630"
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region"
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/note="2#-O-methyl"
5#-3 attached terminal deoxyabasic moiety"
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/note="2#-deoxy-2'-fluoro"
3. .4
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/note="2#-O-methyl"
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/note="2#-deoxy-2'-fluoro"
8. .9
/note="2#-O-methyl"
10. .13
/note="2#-deoxy-2'-fluoro"
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/note="2#-O-methyl"
15. .19
/note="2#-deoxy-2'-fluoro"
20. .21
/note="n stands for thymidine"
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/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
OY 17 ACAGUACAAACCCUGCCUUU 35
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Db 1 ACAGTACAACTCGCCCTT 19
RESULT 277
CS096431 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096431
DEFINITION Sequence 256 from Patent WO2005045040.
ACCESSION CS096431
VERSION CS096431.1 GI:66952904
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 256 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
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/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
misc_feature 1
/note="2#-deoxy-2'-fluoro"
misc_feature 5#-3 attached terminal deoxyabasic moiety"

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misc_feature /note="2#-deoxy-2#-fluoro"
9..10 /note="2#-deoxy"
misc_feature /note="2#-deoxy-2#-fluoro"
11..13 /note="2#-deoxy-2#-fluoro"
14 /note="2#-deoxy"
misc_feature /note="2#-deoxy-2#-fluoro"
15..17 /note="2#-deoxy-2#-fluoro"
18 /note="2#-deoxy"
misc_feature /note="2#-deoxy-2#-fluoro"
19 /note="2#-deoxy-2#-fluoro"
20..21 /note="n stands for thymidine"
misc_feature /note="n stands for thymidine"
20 /note="Phosphorothioate 3#-Internucleotide Linkage"
20

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 975 GCAGAGGACCAAGACCAC 993
Db 19 GCAGATGACCAAGACCAC 1

RESULT 273
CS096427/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 252 from Patent WO2005045040.
DEFINITION CS096427
ACCESSION CS096427
VERSION CS096427.1 GI:66952900
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 252 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
1
misc_feature /note="2#-deoxy-2#-fluoro"
2
misc_feature /note="2#-deoxy"
3..7
misc_feature /note="2#-deoxy-2#-fluoro"
8
misc_feature /note="2#-deoxy"
9..10
misc_feature /note="2#-deoxy-2#-fluoro"
11..12
misc_feature /note="2#-deoxy"
13
misc_feature /note="2#-deoxy-2#-fluoro"
14
misc_feature /note="2#-deoxy"
15..16
misc_feature /note="2#-deoxy-2#-fluoro"
17
misc_feature /note="2#-deoxy"
18..19
misc_feature /note="2#-deoxy-2#-fluoro"
/note="2#-deoxy-2#-fluoro"
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misc_feature 20..21 /note="n stands for thymidine"
misc_feature 20 /note="Phosphorothioate 3#-Internucleotide Linkage"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1712 AGCAGUACGACGACAGACA 1730
Db 19 AGCAGTACGACGACAGACA 1

RESULT 274
CS096428/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 253 from Patent WO2005045040.
DEFINITION CS096428
ACCESSION CS096428
VERSION CS096428.1 GI:66952901
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 253 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
1
misc_feature /note="2#-deoxy"
2..3
misc_feature /note="2#-deoxy-2#-fluoro"
4
misc_feature /note="2#-deoxy"
5..9
misc_feature /note="2#-deoxy-2#-fluoro"
10
misc_feature /note="2#-deoxy"
11..12
misc_feature /note="2#-deoxy-2#-fluoro"
13..14
misc_feature /note="2#-deoxy"
15
misc_feature /note="2#-deoxy-2#-fluoro"
16
misc_feature /note="2#-deoxy"
17..18
misc_feature /note="2#-deoxy-2#-fluoro"
19
misc_feature /note="2#-deoxy"
20..21
misc_feature /note="n stands for thymidine"
20 /note="Phosphorothioate 3#-Internucleotide Linkage"
20

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1714 CAGUACGACGACGACAGU 1732
Db 19 CAGTACGACGACGACAGT 1
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misc_feature /note="2#-deoxy-2#-fluoro"
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misc_feature /note="2#-deoxy"
20..21
misc_feature /note="n stands for thymidine"
20
/note="Phosphorothioate 3#-Internucleotide Linkage"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

OY 21 UACAACCCGCGCCUUGUUU 39
:|||||:|||||:|||||:
Db 19 TACAACCTCGCCCTTGTTT 1

RESULT 270
LOCUS CS096424/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 249 from Patent WO2005045040.
ACCESSION CS096424
VERSION CS096424.1 GI:66952897
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards,I. and Macswiggen,J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 249 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
location/Qualifiers
source 1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
misc_feature 1..2
/note="2#-deoxy"
3..4
/note="2#-deoxy-2#-fluoro"
misc_feature 5..7
/note="2#-deoxy"
8..10
/note="2#-deoxy-2#-fluoro"
misc_feature 11..19
/note="2#-deoxy"
20..21
/note="n stands for thymidine"
misc_feature 20
/note="Phosphorothioate 3#-Internucleotide Linkage"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 315 CUUCCUUAAGCCGCGCC 333
|::|::|::|::|::|::|
Db 19 CTTCCTTACGCTGACC 1

RESULT 271
LOCUS CS096425 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 250 from Patent WO2005045040.
ACCESSION CS096425
VERSION CS096425.1 GI:66952898
KEYWORDS
SOURCE
ORGANISM synthetic construct
```

```
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards,I. and Macswiggen,J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 250 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
location/Qualifiers
source 1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
misc_feature 1
/note="2#-deoxy"
2..4
/note="2#-deoxy-2#-fluoro"
misc_feature 5..6
/note="2#-deoxy-2#-fluoro"
7..9
/note="2#-deoxy"
10..12
/note="2#-deoxy-2#-fluoro"
13..19
/note="2#-deoxy"
20..21
/note="n stands for thymidine"
misc_feature 20
/note="Phosphorothioate 3#-Internucleotide Linkage"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 317 UCCUUAAGCCGCGCG 335
|::|::|::|::|::|::|
Db 19 TCCTTACGCTGCGCTG 1

RESULT 272
LOCUS CS096426 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 251 from Patent WO2005045040.
ACCESSION CS096426
VERSION CS096426.1 GI:66952899
KEYWORDS
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards,I. and Macswiggen,J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 251 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
location/Qualifiers
source 1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
misc_feature 1
/note="2#-deoxy"
2
/note="2#-deoxy-2#-fluoro"
3..4
/note="2#-deoxy"
5..8
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AUTHORS Richard, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 246 19-MAY-2005;
 FEATURES
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 1. .21 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA sense region"
 misc_feature 1. .2 /note="2#-deoxy"
 misc_feature 1 /note="5#-3 attached terminal deoxyabasic moiety"
 misc_feature 3 /note="2#-deoxy-2#-fluoro"
 misc_feature 4 /note="2#-deoxy"
 misc_feature 5. .6 /note="2#-deoxy-2#-fluoro"
 misc_feature 7. .8 /note="2#-deoxy"
 misc_feature 9 /note="2#-deoxy"
 misc_feature 10. .14 /note="2#-deoxy-2#-fluoro"
 misc_feature 15 /note="2#-deoxy"
 misc_feature 16. .17 /note="2#-deoxy-2#-fluoro"
 misc_feature 18. .19 /note="2#-deoxy"
 misc_feature 20. .21 /note="2#-deoxy-2#-fluoro"
 misc_feature 21 /note="n stands for thymidine"
 misc_feature 21 /note="3#-3 attached terminal deoxyabasic moiety"
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 89.5%; Pred. No. 1.1e+02;
 Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 Qy 1715 AGUACGACGACGAGCAGCUC 1733
 Db 1 AGTACCAGCAGACAGCAGTC 19
 RESULT 268
 CS096422/c 21 bp RNA linear PAT 03-JUN-2005
 LOCUS Sequence 247 from Patent WO2005045040.
 DEFINITION CS096422
 ACCESSION CS096422
 VERSION CS096422.1 GI:66952895
 KEYWORDS
 SOURCE
 ORGANISM
 synthetic construct
 synthetic construct
 other sequences; artificial sequences.
 REFERENCES
 1 Richards, I. and Macswiggen, J.
 RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 Patent: WO 2005045040-A 247 19-MAY-2005;
 JOURNAL
 FEATURES
 source
 1. .21 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"

misc_feature 1. .5 /note="2#-deoxy"
 misc_feature 6 /note="2#-deoxy-2#-fluoro"
 misc_feature 7. .10 /note="2#-deoxy"
 misc_feature 11. .12 /note="2#-deoxy-2#-fluoro"
 misc_feature 13 /note="2#-deoxy"
 misc_feature 14 /note="2#-deoxy"
 misc_feature 15 /note="2#-deoxy-2#-fluoro"
 misc_feature 16. .17 /note="2#-deoxy"
 misc_feature 18 /note="2#-deoxy-2#-fluoro"
 misc_feature 19 /note="2#-deoxy"
 misc_feature 20. .21 /note="2#-deoxy-2#-fluoro"
 misc_feature 20 /note="n stands for thymidine"
 misc_feature 20 /note="Phosphorothioate 3'-Internucleotide Linkage"
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 73.7%; Pred. No. 1.1e+02;
 Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
 Qy 17 ACAGUACAACUCCGCCUU 35
 Db 19 ACAGTACAACCTGCCTT 1
 RESULT 269
 CS096423 21 bp RNA linear PAT 03-JUN-2005
 LOCUS Sequence 248 from Patent WO2005045040.
 DEFINITION CS096423
 ACCESSION CS096423
 VERSION CS096423.1 GI:66952896
 KEYWORDS
 SOURCE
 ORGANISM
 synthetic construct
 synthetic construct
 other sequences; artificial sequences.
 REFERENCES
 1 Richards, I. and Macswiggen, J.
 RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 Patent: WO 2005045040-A 248 19-MAY-2005;
 JOURNAL
 FEATURES
 source
 1. .21 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"
 misc_feature 1. .3 /note="2#-deoxy"
 misc_feature 4 /note="2#-deoxy-2#-fluoro"
 misc_feature 5. .9 /note="2#-deoxy"
 misc_feature 10 /note="2#-deoxy-2#-fluoro"
 misc_feature 11. .14 /note="2#-deoxy-2#-fluoro"
 misc_feature 15. .16 /note="2#-deoxy"
 misc_feature 17 /note="2#-deoxy-2#-fluoro"
 misc_feature 18 /note="2#-deoxy"

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misc_feature      21
                  /note="3#-3 attached terminal deoxyabasic moiety"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      975 GCAGAGGACGACGAGACAC 993
Db      1 GCAGATGACGACGAGACAC 19

RESULT 265
LOCUS      CS096419      21 bp      RNA
DEFINITION Sequence 244 from Patent WO2005045040.
ACCESSION  CS096419
VERSION     CS096419.1  GI:66952892
KEYWORDS
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Richards,I. and Macswiggen,J.
TITLE       RNA interference mediated inhibition of cholinergic muscarinic
            receptor (CHRM3) gene expression using short interfering Nucleic
            Acid (siNA)
JOURNAL     Patent: WO 2005045040-A 244 19-MAY-2005;
            Sitna Therapeutics, Inc. (US)
FEATURES
source      1..21
            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="Description of Artificial Sequence: siNA sense
            region"
            1..2
            /note="2#-deoxy"
            misc_feature      1
            /note="5#-3 attached terminal deoxyabasic moiety"
            misc_feature      3
            /note="2#-deoxy-2#-fluoro"
            misc_feature      4..5
            /note="2#-deoxy"
            misc_feature      6
            /note="2#-deoxy-2#-fluoro"
            misc_feature      7
            /note="2#-deoxy-2#-fluoro"
            misc_feature      8..9
            /note="2#-deoxy"
            misc_feature      10..11
            /note="2#-deoxy-2#-fluoro"
            misc_feature      12
            /note="2#-deoxy-2#-fluoro"
            misc_feature      13..17
            /note="2#-deoxy"
            misc_feature      18
            /note="2#-deoxy-2#-fluoro"
            misc_feature      19
            /note="2#-deoxy-2#-fluoro"
            misc_feature      20..21
            /note="n stands for thymidine"
            misc_feature      21
            /note="3#-3 attached terminal deoxyabasic moiety"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1712 AGCAGUACGACGACGAGACA 1730
Db      1 AGCAGTACGACGACGAGACA 19
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RESULT 266
LOCUS      CS096420      21 bp      RNA
DEFINITION Sequence 245 from Patent WO2005045040.
ACCESSION  CS096420
VERSION     CS096420.1  GI:66952893
KEYWORDS
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Richards,I. and Macswiggen,J.
TITLE       RNA interference mediated inhibition of cholinergic muscarinic
            receptor (CHRM3) gene expression using short interfering Nucleic
            Acid (siNA)
JOURNAL     Patent: WO 2005045040-A 245 19-MAY-2005;
            Sitna Therapeutics, Inc. (US)
FEATURES
source      1..21
            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="Description of Artificial Sequence: siNA sense
            region"
            1
            /note="2#-deoxy-2#-fluoro
            5#-3 attached terminal deoxyabasic moiety"
            2..3
            /note="2#-deoxy"
            4
            /note="2#-deoxy-2#-fluoro"
            5
            /note="2#-deoxy"
            misc_feature      6..7
            /note="2#-deoxy"
            misc_feature      8..9
            /note="2#-deoxy-2#-fluoro"
            misc_feature      10
            /note="2#-deoxy-2#-fluoro"
            misc_feature      11..15
            /note="2#-deoxy"
            misc_feature      16
            /note="2#-deoxy-2#-fluoro"
            misc_feature      17..18
            /note="2#-deoxy"
            misc_feature      19
            /note="2#-deoxy-2#-fluoro"
            misc_feature      20..21
            /note="n stands for thymidine"
            misc_feature      21
            /note="3#-3 attached terminal deoxyabasic moiety"

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1714 CAGUACGACGACGACGAGU 1732
Db      1 CAGTACGACGACGACGAGT 19

RESULT 267
LOCUS      CS096421      21 bp      RNA
DEFINITION Sequence 246 from Patent WO2005045040.
ACCESSION  CS096421
VERSION     CS096421.1  GI:66952894
KEYWORDS
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1
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DEFINITION      Sequence 241 from Patent WO2005045040.
ACCESSION       CS0966416
VERSION         CS0966416.1 GI:66952889
KEYWORDS        synthetic construct
SOURCE          synthetic construct
ORGANISM        other sequences; artificial sequences.
REFERENCE
AUTHORS         1 Richards,I. and Macswiggen,J.
TITLE           RNA interference mediated inhibition of cholinergic muscarinic
                receptor (CHRM3) gene expression using short interfering Nucleic
                Acid (siNA)
JOURNAL         Patent: WO 2005045040-A 241 19-MAY-2005;
                Sirna Therapeutics, Inc. (US)
FEATURES
SOURCE          1..21
                location/Qualifiers
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Description of Artificial Sequence: siNA sense
                region"
misc_feature     1..9
                /note="2#-deoxy-2'-fluoro"
misc_feature     1
                /note="5#-3 attached terminal deoxyabasic moiety"
misc_feature     10..12
                /note="2#-deoxy"
misc_feature     13..15
                /note="2#-deoxy-2'-fluoro"
misc_feature     16..17
                /note="2#-deoxy"
misc_feature     18..19
                /note="2#-deoxy"
misc_feature     20..21
                /note="n strands for thymidine"
misc_feature     21
                /note="3#-3 attached terminal deoxyabasic moiety"

Query Match      1.1%; Score 19; DB 1; Length 21;
Beet Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

CY              315 CUUCUCCUUAAGCCUGGCC 333
DB              1 CTCCTTTAAGCCTGGCC 19
               ::::|::|::|::|::|::|::|::|

RESULT 263
LOCUS          CS0966417                      21 bp    RNA          linear    PAT 03-JUN-2005
DEFINITION     Sequence 242 from Patent WO2005045040.
ACCESSION      CS0966417
VERSION        CS0966417.1 GI:66952890
KEYWORDS       synthetic construct
SOURCE         synthetic construct
ORGANISM       other sequences; artificial sequences.
REFERENCE
AUTHORS        1 Richards,I. and Macswiggen,J.
TITLE          RNA interference mediated inhibition of cholinergic muscarinic
                receptor (CHRM3) gene expression using short interfering Nucleic
                Acid (siNA)
JOURNAL        Patent: WO 2005045040-A 242 19-MAY-2005;
                Sirna Therapeutics, Inc. (US)
FEATURES
SOURCE         1..21
                location/Qualifiers
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Description of Artificial Sequence: siNA sense
                region"
misc_feature     1..7
                /note="2#-deoxy-2'-fluoro"

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misc_feature 1 /note="5#-3 attached terminal deoxyabasic moiety"
misc_feature 8..10 /note="2#-deoxy"
misc_feature 11..13 /note="2#-deoxy-2#-fluoro"
misc_feature 14..15 /note="2#-deoxy"
misc_feature 16..18 /note="2#-deoxy-2#-fluoro"
misc_feature 19 /note="2#-deoxy"
misc_feature 20..21 /note="n stands for thymidine"
misc_feature 21 /note="3#-3 attached terminal deoxyabasic moiety"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred.No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Gaps 0;

Oy 317 UCCUCUUAAGCCUGCCUG 335
      :||:|||||:|||||
Db 1 TCCTCTTAGCGCTGCGCTG 19

RESULT 264
CS096418 CS096418 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 243 from Patent WO2005045040.
DEFINITION CS096418
ACCESSION CS096418
VERSION CS096418.1 GI:66952891
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 243 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES
source
location/Qualifiers
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
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/note="2#-deoxy"
5#-3 attached terminal deoxyabasic moiety"
2
/note="2#-deoxy-2#-fluoro"
3..5
/note="2#-deoxy"
6
/note="2#-deoxy-2#-fluoro"
7..9
/note="2#-deoxy"
10..11
/note="2#-deoxy-2#-fluoro"
12..15
/note="2#-deoxy"
16..17
/note="2#-deoxy-2#-fluoro"
18
/note="2#-deoxy"
19
/note="2#-deoxy-2#-fluoro"
20..21
/note="n stands for thymidine"
misc_feature

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/db xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
misc_feature
3..4 /note="2#-deoxy-2#-fluoro"
misc_feature
6..10 /note="2#-deoxy-2#-fluoro"
misc_feature
12..13 /note="2#-deoxy-2#-fluoro"
misc_feature
16 /note="2#-deoxy-2#-fluoro"
misc_feature
18..19 /note="2#-deoxy-2#-fluoro"
misc_feature
20..21 /note="2#-deoxy-2#-fluoro"
misc_feature
20 /note="n stands for thymidine"
/note="Phosphorothioate 3'-Internucleotide Linkage"

Query Match
Best Local Similarity 89.5%; Pred. No. 1.1e+02; Length 21;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1715 AGUACGACGAGACAGACAGUC 1733
Db 19 AGTACCAGCAGACAGACAGTC 1

RESULT 260
LOCUS CS096414 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 239 from Patent WO2005045040.
ACCESSION CS096414
VERSION CS096414.1 GI:66952887
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 239 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
misc_feature
1 /note="2#-deoxy
5#-3 attached terminal deoxyabasic moiety"
misc_feature
2 /note="2#-deoxy-2#-fluoro"
misc_feature
3..4 /note="2#-deoxy"
misc_feature
5 /note="2#-deoxy"
misc_feature
6 /note="2#-deoxy-2#-fluoro"
misc_feature
7 /note="2#-deoxy"
misc_feature
8..9 /note="2#-deoxy-2#-fluoro"
misc_feature
10..13 /note="2#-deoxy"
misc_feature
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misc_feature
15..19 /note="2#-deoxy"
misc_feature
20..21 /note="2#-deoxy-2#-fluoro"
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/note="n stands for thymidine"
misc_feature
21 /note="3#-3 attached terminal deoxyabasic moiety"

Query Match
Best Local Similarity 73.7%; Pred. No. 1.1e+02; Length 21;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 17 ACAGUACACCCUGCCCUUU 35
Db 1 ACAGTACACCTCGCCCTT 19

RESULT 261
LOCUS CS096415 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 240 from Patent WO2005045040.
ACCESSION CS096415
VERSION CS096415.1 GI:66952888
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richards, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 240 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense
region"
misc_feature
1 /note="2#-deoxy-2#-fluoro
5#-3 attached terminal deoxyabasic moiety"
misc_feature
2 /note="2#-deoxy"
misc_feature
3 /note="2#-deoxy-2#-fluoro"
misc_feature
4..5 /note="2#-deoxy"
misc_feature
6..9 /note="2#-deoxy"
misc_feature
10 /note="2#-deoxy-2#-fluoro"
misc_feature
11..15 /note="2#-deoxy"
misc_feature
16 /note="2#-deoxy-2#-fluoro"
misc_feature
17..19 /note="2#-deoxy"
misc_feature
20..21 /note="2#-deoxy-2#-fluoro"
misc_feature
21 /note="n stands for thymidine"
/note="3#-3 attached terminal deoxyabasic moiety"

Query Match
Best Local Similarity 57.9%; Pred. No. 1.1e+02; Length 21;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 21 UACACCCUGCCCUUUUGUU 39
Db 1 TACACCTCGCCCTTGT 19

RESULT 262
LOCUS CS096416 21 bp RNA linear PAT 03-JUN-2005
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/db xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
2
misc_feature
/note="2#-deoxy-2#-fluoro"
5..8
misc_feature
/note="2#-deoxy-2#-fluoro"
11..13
misc_feature
/note="2#-deoxy-2#-fluoro"
15..17
misc_feature
/note="2#-deoxy-2#-fluoro"
19
misc_feature
/note="2#-deoxy-2#-fluoro"
20..21
/note="n stands for thymidine"
20
/note="Phosphorothioate 3'-Internucleotide Linkage"
20

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 975 GCAGAGGACCAAGACCAC 993
Db 19 GCAGATGACCAAGACCAC 1

RESULT 257
CS096413/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 236 from Patent WO2005045040.
DEFINITION CS096411
ACCESSION CS096411.1 GI:66952884
VERSION
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richard, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 236 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
Location/Qualifiers
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
1
misc_feature
/note="2#-deoxy-2#-fluoro"
3..7
misc_feature
/note="2#-deoxy-2#-fluoro"
9..10
misc_feature
/note="2#-deoxy-2#-fluoro"
13
misc_feature
/note="2#-deoxy-2#-fluoro"
15..16
misc_feature
/note="2#-deoxy-2#-fluoro"
18..19
misc_feature
/note="2#-deoxy-2#-fluoro"
20..21
/note="n stands for thymidine"
20
/note="Phosphorothioate 3'-Internucleotide Linkage"
20

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAGACA 1730
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Db 19 AGCAGTACCGACGAGACA 1

RESULT 258
CS096412/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 237 from Patent WO2005045040.
DEFINITION CS096412
ACCESSION CS096412
VERSION CS096412.1 GI:66952885
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richard, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 237 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
Location/Qualifiers
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"
1
misc_feature
/note="2#-deoxy-2#-fluoro"
2..3
misc_feature
/note="2#-deoxy-2#-fluoro"
5..9
misc_feature
/note="2#-deoxy-2#-fluoro"
11..12
misc_feature
/note="2#-deoxy-2#-fluoro"
15
misc_feature
/note="2#-deoxy-2#-fluoro"
17..18
misc_feature
/note="2#-deoxy-2#-fluoro"
20..21
/note="n stands for thymidine"
20
/note="Phosphorothioate 3'-Internucleotide Linkage"
20

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACCGACGAGACAGU 1732
Db 19 CAGTACCGACGAGACAGT 1

RESULT 259
CS096413/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 238 from Patent WO2005045040.
DEFINITION CS096413
ACCESSION CS096413
VERSION CS096413.1 GI:66952886
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Richard, I. and Macswiggen, J.
AUTHORS RNA interference mediated inhibition of cholinergic muscarinic
TITLE receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 238 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
Location/Qualifiers
source
1..21
/organism="synthetic construct"
/mol_type="unassigned RNA"
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SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 232 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
4
misc_feature
/note="2#-deoxy-2#-fluoro"
10
misc_feature
/note="2#-deoxy-2#-fluoro"
15. .16
misc_feature
/note="2#-deoxy-2#-fluoro"
18
misc_feature
/note="2#-deoxy-2#-fluoro"
20. .21
misc_feature
/note="n stands for thymidine"
20
/note="Phosphorothioate 3#-Internucleotide Linkage"

Query Match
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 21 UACACCCUGCCUUGUU 39
:||||:||||:||||:
19 TACAACTCGCCCTTGT 1

Db 19 TACAACTCGCCCTTGT 1

RESULT 254
CS096408/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096408
DEFINITION Sequence 233 from Patent WO2005045040.
ACCESSION CS096408
VERSION CS096408.1 GI:66952881
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 233 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
3. .4
misc_feature
/note="2#-deoxy-2#-fluoro"
8. .10
misc_feature
/note="2#-deoxy-2#-fluoro"
20. .21
misc_feature
/note="n stands for thymidine"
20
/note="Phosphorothioate 3#-Internucleotide Linkage"

Query Match
1.1%; Score 19; DB 1; Length 21;
1.1%; Score 19; DB 1; Length 21;

Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 315 CUUCUCUAAAGCCUGGCC 333
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19 TCCTCTTAAGCCTGACC 1

Db 19 TCCTCTTAAGCCTGACC 1

RESULT 255
CS096409/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096409
DEFINITION Sequence 234 from Patent WO2005045040.
ACCESSION CS096409
VERSION CS096409.1 GI:66952882
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 234 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
1
misc_feature
/note="2#-deoxy-2#-fluoro"
5. .6
misc_feature
/note="2#-deoxy-2#-fluoro"
10. .12
misc_feature
/note="2#-deoxy-2#-fluoro"
20. .21
misc_feature
/note="n stands for thymidine"
20
/note="Phosphorothioate 3#-Internucleotide Linkage"

Query Match
1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 317 UCCUCUAAAGCCUGGCCUG 335
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19 TCCTCTTAAGCCTGACC 1

Db 19 TCCTCTTAAGCCTGACC 1

RESULT 256
CS096410/c 21 bp RNA linear PAT 03-JUN-2005
LOCUS CS096410
DEFINITION Sequence 235 from Patent WO2005045040.
ACCESSION CS096410
VERSION CS096410.1 GI:66952883
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 235 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"

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REFERENCE      1
AUTHORS        Richards,I. and Macswiggen,J.
TITLE          RNA interference mediated inhibition of cholinergic muscarinic
                receptor (CHRM3) gene expression using short interfering Nucleic
                Acid (siNA)
JOURNAL        Patent: WO 2005045040-A 229 19-MAY-2005;
                Sirna Therapeutics, Inc. (US)
FEATURES
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misc_feature   1
               /note="2#-deoxy-2#-fluoro
               5#-3 attached terminal deoxyabasic moiety"
misc_feature   4
               /note="2#-deoxy-2#-fluoro"
misc_feature   6..7
               /note="2#-deoxy-2#-fluoro"
misc_feature   10
               /note="2#-deoxy-2#-fluoro"
misc_feature   16
               /note="2#-deoxy-2#-fluoro"
misc_feature   19
               /note="2#-deoxy-2#-fluoro"
misc_feature   20..21
               /note="n stands for thymidine"
misc_feature   21
               /note="3#-3 attached terminal deoxyabasic moiety"

Query Match
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1714 CAGUACGACGAGACAGU 1732
Db      1 CAGTACGACGAGACAGT 19

RESULT 251
LOCUS      CS096405          21 bp      RNA          linear      PAT 03-JUN-2005
DEFINITION Sequence 230 from Patent WO2005045040.
ACCESSION  CS096405
VERSION     CS096405.1  GI:66952878
KEYWORDS
SOURCE      .
ORGANISM    synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
AUTHORS      Richards,I. and Macswiggen,J.
TITLE        RNA interference mediated inhibition of cholinergic muscarinic
            receptor (CHRM3) gene expression using short interfering Nucleic
            Acid (siNA)
JOURNAL      Patent: WO 2005045040-A 230 19-MAY-2005;
            Sirna Therapeutics, Inc. (US)
FEATURES
source
misc_feature   1
               /organism="synthetic construct"
               /mol_type="unassigned RNA"
               /db_xref="taxon:32630"
               /note="Description of Artificial Sequence: siNA sense
               region"
misc_feature   1
               /note="5#-3 attached terminal deoxyabasic moiety"
misc_feature   3
               /note="2#-deoxy-2#-fluoro"
misc_feature   5..6
               /note="2#-deoxy-2#-fluoro"
misc_feature   9
               /note="2#-deoxy-2#-fluoro"

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misc_feature   15
               /note="2#-deoxy-2#-fluoro"
misc_feature   18..19
               /note="2#-deoxy-2#-fluoro"
misc_feature   20..21
               /note="n stands for thymidine"
misc_feature   21
               /note="3#-3 attached terminal deoxyabasic moiety"

Query Match
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1715 AGUACGACGACGACAGUC 1733
Db      1 AGTACGACGACGACAGTC 19

RESULT 252
LOCUS      CS096406/c        21 bp      RNA          linear      PAT 03-JUN-2005
DEFINITION Sequence 231 from Patent WO2005045040.
ACCESSION  CS096406
VERSION     CS096406.1  GI:66952879
KEYWORDS
SOURCE      .
ORGANISM    synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
AUTHORS      Richards,I. and Macswiggen,J.
TITLE        RNA interference mediated inhibition of cholinergic muscarinic
            receptor (CHRM3) gene expression using short interfering Nucleic
            Acid (siNA)
JOURNAL      Patent: WO 2005045040-A 231 19-MAY-2005;
            Sirna Therapeutics, Inc. (US)
FEATURES
source
misc_feature   6
               /note="2#-deoxy-2#-fluoro"
misc_feature   11..12
               /note="2#-deoxy-2#-fluoro"
misc_feature   14
               /note="2#-deoxy-2#-fluoro"
misc_feature   16..17
               /note="2#-deoxy-2#-fluoro"
misc_feature   19
               /note="2#-deoxy-2#-fluoro"
misc_feature   20..21
               /note="n stands for thymidine"
misc_feature   20
               /note="Phosphorothioate 3'-Internucleotide Linkage"
               /note="3#-3 attached terminal deoxyabasic moiety"

Query Match
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      17  ACAGUACACUCGACCUU 35
Db      19 ACAGTACACCTCGCCTT 1

RESULT 253
LOCUS      CS096407/c        21 bp      RNA          linear      PAT 03-JUN-2005
DEFINITION Sequence 232 from Patent WO2005045040.
ACCESSION  CS096407
VERSION     CS096407.1  GI:66952880
KEYWORDS

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REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 226 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature 1..7
/note="2#-deoxy-2#-fluoro"
misc_feature 1
/note="5#-3 attached terminal deoxyabasic moiety"
misc_feature 11..13
/note="2#-deoxy-2#-fluoro"
misc_feature 16..18
/note="2#-deoxy-2#-fluoro"
misc_feature 20..21
/note="n stands for thymidine"
misc_feature 21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
Qy 317 UCCUCUAGCCGCGCCUG 335
Db 1 TCCTCTTAAGCTCGGCTTG 19
RESULT 248
LOCUS CS096402 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 227 from Patent WO2005045040.
ACCESSION CS096402
VERSION CS096402.1 GI:66952875
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 227 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature 1
/note="5#-3 attached terminal deoxyabasic moiety"
misc_feature 2
/note="2#-deoxy-2#-fluoro"
misc_feature 6
/note="2#-deoxy-2#-fluoro"
misc_feature 10..11
/note="2#-deoxy-2#-fluoro"
misc_feature 16..17
/note="2#-deoxy-2#-fluoro"
misc_feature 19
/note="2#-deoxy-2#-fluoro"
misc_feature 20..21
/note="2#-deoxy-2#-fluoro"

misc_feature 21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 975 GCAGUAGCAGACGAC 993
Db 1 GCAGATGACCAAGACAC 19
RESULT 249
LOCUS CS096403 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 228 from Patent WO2005045040.
ACCESSION CS096403
VERSION CS096403.1 GI:66952876
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 228 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature 1
/note="5#-3 attached terminal deoxyabasic moiety"
misc_feature 3
/note="2#-deoxy-2#-fluoro"
misc_feature 6
/note="2#-deoxy-2#-fluoro"
misc_feature 8..9
/note="2#-deoxy-2#-fluoro"
misc_feature 12
/note="2#-deoxy-2#-fluoro"
misc_feature 18
/note="2#-deoxy-2#-fluoro"
misc_feature 20..21
/note="n stands for thymidine"
misc_feature 21
/note="3#-3 attached terminal deoxyabasic moiety"
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1712 AGCAGUACGACGAGACA 1730
Db 1 AGCAGTACGACGAGAGACA 19
RESULT 250
LOCUS CS096404 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 229 from Patent WO2005045040.
ACCESSION CS096404
VERSION CS096404.1 GI:66952877
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 223 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"

misc_feature 1
/note="5'-3' attached terminal deoxyabasic moiety"

misc_feature 2
/note="2'-deoxy-2'-fluoro"

misc_feature 5
/note="2'-deoxy-2'-fluoro"

misc_feature 7
/note="2'-deoxy-2'-fluoro"

misc_feature 10. .13
/note="2'-deoxy-2'-fluoro"

misc_feature 15. .19
/note="2'-deoxy-2'-fluoro"

misc_feature 20. .21
/note="n stands for thymidine"

misc_feature 21
/note="3'-3' attached terminal deoxyabasic moiety"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACCCGCUUU 35
|||||:|||||:|||||:
1 ACAGTACACCTCGCCTT 19

Db

RESULT 245
LOCUS CS096399 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 224 from Patent WO2005045040.
ACCESSION CS096399
VERSION CS096399.1 GI:66952872
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 224 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"

misc_feature 1
/note="2'-deoxy-2'-fluoro"

misc_feature 5-3 attached terminal deoxyabasic moiety"

misc_feature 3
/note="2'-deoxy-2'-fluoro"

misc_feature 6. .9
/note="2'-deoxy-2'-fluoro"

misc_feature 11. .15

misc_feature /note="2'-deoxy-2'-fluoro"
17. .19
misc_feature /note="2'-deoxy-2'-fluoro"
20. .21
misc_feature /note="n stands for thymidine"
21
/note="3'-3' attached terminal deoxyabasic moiety"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACCCGCUUUGUU 39
:|||||:|||||:|||||:
1 TACAACCTCGCCTTGTT 19

Db

RESULT 246
LOCUS CS096400 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 225 from Patent WO2005045040.
ACCESSION CS096400
VERSION CS096400.1 GI:66952873
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 225 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"

misc_feature 1. .9
/note="n stands for thymidine"

misc_feature 1
/note="5'-3' attached terminal deoxyabasic moiety"

misc_feature 13. .15
/note="n stands for thymidine"

misc_feature 18. .19
/note="n stands for thymidine"

misc_feature 20. .21
/note="n stands for thymidine"

misc_feature 21
/note="3'-3' attached terminal deoxyabasic moiety"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUUCCUUAAGCCUGCC 333
|||:|||||:|||||:
1 CTTCCCTTAAGCTTGCC 19

Db

RESULT 247
LOCUS CS096401 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 226 from Patent WO2005045040.
ACCESSION CS096401
VERSION CS096401.1 GI:66952874
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 219 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature 20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 975 GCAGUGAGCCAGACCAC 993
|||||:|||||
Db 19 GCAGATGCACCAAGACCAC 1

RESULT 241
LOCUS CS096395/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 220 from Patent WO2005045040.
ACCESSION CS096395
VERSION CS096395.1 GI:66952868
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 220 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature 20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1712 AGCAGUACGACGAGACA 1730
|||||:|||||
Db 19 AGCAGTACGACGAGAGACA 1

RESULT 242
LOCUS CS096396/c 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 221 from Patent WO2005045040.
ACCESSION CS096396
VERSION CS096396.1 GI:66952869
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct

ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 221 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature 20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1714 CAGUACGACGAGACAGU 1732
|||||:|||||
Db 19 CAGTACGACGAGACAGT 1

RESULT 243
LOCUS CS096397 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 222 from Patent WO2005045040.
ACCESSION CS096397
VERSION CS096397.1 GI:66952870
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 222 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature 20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1715 AGUACGACGACGAGACU 1733
|||||:|||||
Db 19 AGTACGACGACGAGACGTC 1

RESULT 244
LOCUS CS096398 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 223 from Patent WO2005045040.
ACCESSION CS096398
VERSION CS096398.1 GI:66952871
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct

VERSION CS096390.1 GI:66952863
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 215 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1.21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature 20..21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 17 ACAGUACAACCTCGCCTTU 35
DB 19 ACAGTACAACCTCGCCTT 1

RESULT 237
LOCUS CS096391 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 216 from Patent WO2005045040.
ACCESSION CS096391
VERSION CS096391.1 GI:66952864
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 216 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1.21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature 20..21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACUCCGCUUUUUU 39
DB 19 TACAACCTCGCCTTGT 1

RESULT 238
LOCUS CS096392 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 217 from Patent WO2005045040.
ACCESSION CS096392
VERSION CS096392.1 GI:66952865

KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 217 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1.21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature 20..21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUUCUCUUAAGCCUGGCC 333
DB 19 CTTCCTTTAAGCCTGACC 1

RESULT 239
LOCUS CS096393 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 218 from Patent WO2005045040.
ACCESSION CS096393
VERSION CS096393.1 GI:66952866
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 218 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1.21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"
misc_feature 20..21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUUAAGCCUGGCC 335
DB 19 TCCTCTTAAGCCTGACCTG 1

RESULT 240
LOCUS CS096394 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 219 from Patent WO2005045040.
ACCESSION CS096394
VERSION CS096394.1 GI:66952867

DEFINITION Sequence 211 from Patent WO2005045040.
ACCESSION CS096386
VERSION CS096386.1 GI:66952859
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 211 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature
20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
Matches 18; Conservative 1; Indels 0; Gaps 0;

QY 975 GCAGATGACCAAGACCAC 993
||||:|||||
Db 1 GCAGATGACCAAGACCAC 19

RESULT 233
LOCUS CS096387 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 212 from Patent WO2005045040.
ACCESSION CS096387
VERSION CS096387.1 GI:66952860
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 212 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature
20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
Matches 18; Conservative 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAGAC 1730
||||:|||||
Db 1 AGCAGUACGACGAGAC 19

RESULT 234
LOCUS CS096388 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 213 from Patent WO2005045040.

ACCESSION CS096388
VERSION CS096388.1 GI:66952861
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 213 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature
20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGAGACAGU 1732
||||:|||||
Db 1 CAGTACGACGAGAGACAGT 19

RESULT 235
LOCUS CS096389 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 214 from Patent WO2005045040.
ACCESSION CS096389
VERSION CS096389.1 GI:66952862
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 214 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA sense region"
misc_feature
20. .21
/note="n stands for thymidine"

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGACAGACGUC 1733
||||:|||||
Db 1 AGTACGACGACAGACAGTC 19

RESULT 236
LOCUS CS096390 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 215 from Patent WO2005045040.
ACCESSION CS096390

CS096382 LOCUS CS096382 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 207 from Patent WO2005045040.
ACCESSION CS096382
VERSION CS096382.1 GI:66952855
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
misc_feature
Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
Db 17 ACAAGAACACCGCCUUU 35
1 ACAAGAACACCGCCCTT 19

RESULT 229
CS096383 LOCUS CS096383 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 208 from Patent WO2005045040.
ACCESSION CS096383
VERSION CS096383.1 GI:66952856
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
misc_feature
Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
Db 21 UACACCGCCUUGUUU 39
1 TACACCTCGCCTTGTT 19

RESULT 230
CS096384

LOCUS CS096384 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 209 from Patent WO2005045040.
ACCESSION CS096384
VERSION CS096384.1 GI:66952857
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
misc_feature
Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
Db 315 CUUCUCUUAAGCCUGCC 333
1 CTTCCCTTAAGCCTGCGC 19

RESULT 231
CS096385 LOCUS CS096385 21 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 210 from Patent WO2005045040.
ACCESSION CS096385
VERSION CS096385.1 GI:66952858
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
misc_feature
Query Match
Best Local Similarity 1.1%; Score 19; DB 1; Length 21;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
Db 317 UCCUCUUAAGCCUGCCUG 335
1 TCCTCTTAAGCCTGCGCCTG 19

RESULT 232
CS096386 LOCUS CS096386 21 bp RNA linear PAT 03-JUN-2005

other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siRNA)
JOURNAL Patent: WO 2005/045040-A 198 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: sirna antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1753 GCACCCGAGCAGCCUUGU 1771
Db 19 GCACCCGAGCAGCCCTTGT 1

RESULT 224
LOCUS CS207422 19 bp DNA linear PAT 08-DEC-2005
DEFINITION Sequence 130 from Patent WO2005109000.
ACCESSION CS207422
VERSION CS207422.1 GI:83413729
KEYWORDS
SOURCE .
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Spittaels, K.F.
JOURNAL Patent: WO 2005109000-A 130 17-NOV-2005;
Galapagos Genomics N.V. (BE); Spittaels, Koenraad Frederick F. (BE)
FEATURES
source location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 291 GCAGCTGAGACGCTGCAAC 309
Db 1 GCAGCTGAGACGCTGCAAC 19

RESULT 225
LOCUS CS207423 19 bp DNA linear PAT 08-DEC-2005
DEFINITION Sequence 131 from Patent WO2005109000.
ACCESSION CS207423
VERSION CS207423.1 GI:83413730
KEYWORDS
SOURCE .
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Spittaels, K.F.
JOURNAL Patent: WO 2005109000-A 131 17-NOV-2005;
Galapagos Genomics N.V. (BE); Spittaels, Koenraad Frederick F. (BE)
FEATURES
source location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned DNA"

/db_xref="taxon:32630"
/note="synthetic oligonucleotide"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 549 GAGAGCCGCTGATGATC 567
Db 1 GAGAGCCGCTGATGATC 19

RESULT 226
LOCUS CS207424 19 bp DNA linear PAT 08-DEC-2005
DEFINITION Sequence 132 from Patent WO2005109000.
ACCESSION CS207424
VERSION CS207424.1 GI:83413731
KEYWORDS
SOURCE .
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Spittaels, K.F.
JOURNAL Patent: WO 2005109000-A 132 17-NOV-2005;
Galapagos Genomics N.V. (BE); Spittaels, Koenraad Frederick F. (BE)
FEATURES
source location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1014 CACCAUGAGUCGUGGCC 1032
Db 1 CACCAUGAGUCGUGGCC 19

RESULT 227
LOCUS CS207425 19 bp DNA linear PAT 08-DEC-2005
DEFINITION Sequence 133 from Patent WO2005109000.
ACCESSION CS207425
VERSION CS207425.1 GI:83413732
KEYWORDS
SOURCE .
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Spittaels, K.F.
JOURNAL Patent: WO 2005109000-A 133 17-NOV-2005;
Galapagos Genomics N.V. (BE); Spittaels, Koenraad Frederick F. (BE)
FEATURES
source location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1581 UCUGGCGUACUGGCGUGC 1599
Db 1 TCTGGGCTACTGGCTGTGC 19

RESULT 228

RESULT 219
LOCUS CS096369/c 19 bp RNA
DEFINITION Sequence 194 from Patent WO2005045040.
ACCESSION CS096369
VERSION CS096369.1 GI:66952842
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richarde, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 194 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1695 AAAAAGAGCGCAGACAG 1713
Db 19 AAAAAGAGCGCAGACAG 1

RESULT 220
LOCUS CS096370/c 19 bp RNA
DEFINITION Sequence 195 from Patent WO2005045040.
ACCESSION CS096370
VERSION CS096370.1 GI:66952843
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 195 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1713 GCAGUACGACGACAGACAG 1731
Db 19 GCAGTACGACGACAGACAG 1

RESULT 221
LOCUS CS096371/c 19 bp RNA
DEFINITION Sequence 196 from Patent WO2005045040.

ACCESSION CS096371
VERSION CS096371.1 GI:66952844
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richarde, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 196 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1731 GCGGCAUUUUUCCACAG 1749
Db 19 GCGGCAUUUUUCCACAG 1

RESULT 222
LOCUS CS096372/c 19 bp RNA
DEFINITION Sequence 197 from Patent WO2005045040.
ACCESSION CS096372
VERSION CS096372.1 GI:66952845
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 197 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1749 GCGGCAUCCGACAGGCC 1767
Db 19 GCGGCAUCCGACAGGCC 1

RESULT 223
LOCUS CS096373/c 19 bp RNA
DEFINITION Sequence 198 from Patent WO2005045040.
ACCESSION CS096373
VERSION CS096373.1 GI:66952846
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1605 CAACAGCACCGTGAACCCC 1623
DB 19 CAACAGCACCGTGAACCCC 1

RESULT 215
LOCUS CS096365/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 190 from Patent WO2005045040.
ACCESSION CS096365
VERSION CS096365.1 GI:66952838
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 190 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1623 CGUGGCUAUGCUCUGUC 1641
DB 19 CGGTGCTATGCTGTGTC 1

RESULT 216
LOCUS CS096366/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 191 from Patent WO2005045040.
ACCESSION CS096366
VERSION CS096366.1 GI:66952839
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 191 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1641 CAACAAACAUCGAAACC 1659
DB 19 CAACAAACAUCGAAACC 1

RESULT 217
LOCUS CS096367/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 192 from Patent WO2005045040.
ACCESSION CS096367
VERSION CS096367.1 GI:66952840
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 192 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1659 CACUUCACAGUCGUCUG 1677
DB 19 CACTTTCAGATGCTGCTG 1

RESULT 218
LOCUS CS096368/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 193 from Patent WO2005045040.
ACCESSION CS096368
VERSION CS096368.1 GI:66952841
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 193 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1677 GCTUGCCAGUGGACAAA 1695
DB 19 GCTGTGCCAGTGTGACAAA 1

receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 Patent: WO 2005045040-A 185 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
 Location/Qualifiers
 1. 19
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 57.9%; Pred. No. 84;
 Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 1533 UCUGUGAACACCUUUUGU 1551
 DB 19 TCTGTGTAACACCTTTGT 1

RESULT 211
 CS096361/c 19 bp RNA linear PAT 03-JUN-2005
 LOCUS CS096361 Sequence 186 from Patent WO2005045040.
 DEFINITION CS096361
 ACCESSION CS096361.1 GI:66952834
 VERSION
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 186 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
 FEATURES
 source Location/Qualifiers
 1. 19
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 84.2%; Pred. No. 84;
 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY -1551 UGACAGCUGCAUACCCCAA 1569
 DB 19 TGACAGCTGCATACCCCAA 1

RESULT 212
 CS096362/c 19 bp RNA linear PAT 03-JUN-2005
 LOCUS CS096362 Sequence 187 from Patent WO2005045040.
 DEFINITION CS096362
 ACCESSION CS096362.1 GI:66952835
 VERSION
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 187 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
 FEATURES
 source Location/Qualifiers

source 1. 19
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 68.4%; Pred. No. 84;
 Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1569 AACCUUUGGAUUCUGGCG 1587
 DB 19 AACCTTTGGAATCTGGC 1

RESULT 213
 CS096363/c 19 bp RNA linear PAT 03-JUN-2005
 LOCUS CS096363 Sequence 188 from Patent WO2005045040.
 DEFINITION CS096363
 ACCESSION CS096363.1 GI:66952836
 VERSION
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 188 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
 FEATURES
 source Location/Qualifiers
 1. 19
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
 Best Local Similarity 68.4%; Pred. No. 84;
 Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1587 CUACUGCUGUGCAUAC 1605
 DB 19 CTACTGCTGTGCTACATC 1

RESULT 214
 CS096364/c 19 bp RNA linear PAT 03-JUN-2005
 LOCUS CS096364 Sequence 189 from Patent WO2005045040.
 DEFINITION CS096364
 ACCESSION CS096364.1 GI:66952837
 VERSION
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.

REFERENCE 1
 AUTHORS Richards, I. and Macswiggen, J.
 TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
 JOURNAL Patent: WO 2005045040-A 189 19-MAY-2005;
 SiRNA Therapeutics, Inc. (US)
 FEATURES
 source Location/Qualifiers
 1. 19
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="Description of Artificial Sequence: siNA antisense region"

DEFINITION Sequence 181 from Patent WO2005045040.
ACCESSION CS096356
VERSION CS096356.1 GI:66952829
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 181 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1461 GAAGGGCCGACACCCCTC 1479
DB 19 GAAGGGCCGACACCCCTC 1

RESULT 207
LOCUS CS096357 19 bp RNA
DEFINITION Sequence 182 from Patent WO2005045040.
ACCESSION CS096357
VERSION CS096357.1 GI:66952830
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 182 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1479 CAGUGGACUUCGUCGUC 1497
DB 19 CAGTGGATCTTCTTGCC 1

RESULT 208
LOCUS CS096358 19 bp RNA
DEFINITION Sequence 183 from Patent WO2005045040.
ACCESSION CS096358
VERSION CS096358.1 GI:66952831
KEYWORDS
SOURCE synthetic construct

ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 183 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CUUCAUCAUCUGGACC 1515
DB 19 CTTGATCATCATCTTGACC 1

RESULT 209
LOCUS CS096359 19 bp RNA
DEFINITION Sequence 184 from Patent WO2005045040.
ACCESSION CS096359
VERSION CS096359.1 GI:66952832
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 184 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1515 CCCAUAACAUAUGU 1533
DB 19 CCCATACAATCATGCTT 1

RESULT 210
LOCUS CS096360 19 bp RNA
DEFINITION Sequence 185 from Patent WO2005045040.
ACCESSION CS096360
VERSION CS096360.1 GI:66952833
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic

Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1371 CUUCAAAGAGCCACUCUG 1389
DB 19 CTTCAAGAGAGCCACTCTG 1

RESULT 202
CS096352/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 177 from Patent WO2005045040.
DEFINITION CS096352
ACCESSION CS096352.1 GI:66952825
VERSION
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 177 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1389 GGCAGAGAGUUGCUCUG 1407
DB 19 GGCAGAGAGTTGCTCTG 1

RESULT 203
CS096353/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 178 from Patent WO2005045040.
DEFINITION CS096353
ACCESSION CS096353.1 GI:66952826
VERSION
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 178 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1407 GAAGACGAGAGUCAGAG 1425
DB 19 GAAGACGAGAGTCAGATC 1

RESULT 204
CS096354/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 179 from Patent WO2005045040.
DEFINITION CS096354
ACCESSION CS096354.1 GI:66952827
VERSION
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 179 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1425 CACUAGCGAAGAGAG 1443
DB 19 CACTAGCGGAAAGAGATG 1

RESULT 205
CS096355/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 180 from Patent WO2005045040.
DEFINITION CS096355
ACCESSION CS096355.1 GI:66952828
VERSION
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswigen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 180 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1443 GUCCUGGUCAGAGAGAG 1461
DB 19 GTCCCTGTCAGAGAGAG 1

RESULT 206
CS096356/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096356

FEATURES Location/Qualifiers
source 1. 19

/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1299 AGCCGUGACAGCAGCUAG 1317

Db 19 AGCCGTGACACGACTAAG 1

RESULT 198
LOCUS CS096348/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 173 from Patent WO2005045040.
ACCESSION CS096348
VERSION CS096348.1 GI:66952821
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 173 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1317 GACUUCUACGUCACUCC 1335
Db 19 GACTTCTGACGTCACCTCC 1

RESULT 199
LOCUS CS096349/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 174 from Patent WO2005045040.
ACCESSION CS096349
VERSION CS096349.1 GI:66952822
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 174 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"

/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1335 CUCAGUGGUAGAGCAGC 1353

Db 19 CTCAGTGGGTAAGACAGC 1

RESULT 200
LOCUS CS096350/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 175 from Patent WO2005045040.
ACCESSION CS096350
VERSION CS096350.1 GI:66952823
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 175 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1353 GGCACUCUACUCCUCC 1371
Db 19 GGCACCTCCTACCTCTGCC 1

RESULT 201
LOCUS CS096351/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 176 from Patent WO2005045040.
ACCESSION CS096351
VERSION CS096351.1 GI:66952824
KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 176 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;

SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 168 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1227 GGCCCGAAGAGCGUGGAC 1245
|||||
19 GGCCCGAAGAGCGGTGAC 1

RESULT 194
CS096344/C 19 bp RNA linear PAT 03-JUN-2005
LOCUS
DEFINITION Sequence 169 from Patent WO2005045040.
ACCESSION CS096344
VERSION CS096344.1 GI:66952817
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 169 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 1245 CGAUGAGGAGUUUCCA 1263
|||||
19 CGATGAGGAGGATTTCCA 1

RESULT 195
CS096345/C 19 bp RNA linear PAT 03-JUN-2005
LOCUS
DEFINITION Sequence 170 from Patent WO2005045040.
ACCESSION CS096345
VERSION CS096345.1 GI:66952818
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.

TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 170 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 1263 AAAAGCUCUCCAGACCU 1281
|||||
19 AAAAGCTTCTCCAGCTT 1

RESULT 196
CS096346/C 19 bp RNA linear PAT 03-JUN-2005
LOCUS
DEFINITION Sequence 171 from Patent WO2005045040.
ACCESSION CS096346
VERSION CS096346.1 GI:66952819
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 171 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1281 UCCCAUCCAGCUAGAGUCA 1299
|||||
19 TCCATCCAGCTTAGACTCA 1

RESULT 197
CS096347 19 bp RNA linear PAT 03-JUN-2005
LOCUS
DEFINITION Sequence 172 from Patent WO2005045040.
ACCESSION CS096347
VERSION CS096347.1 GI:66952820
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 172 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

Db 19 CTCACCAAGTACCTCA 1

RESULT 189
CS096339/c 19 bp RNA linear PAT 03-JUN-2005

LOCUS
DEFINITION Sequence 164 from Patent WO2005045040.
ACCESSION CS096339
VERSION CS096339.1 GI:66952812

KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 164 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1155 ATCGGCAACCTCGAGGTG 1173

Db 19 ATCGGCAACCTCGAGGTG 1

RESULT 190
CS096340/c 19 bp RNA linear PAT 03-JUN-2005

LOCUS
DEFINITION Sequence 165 from Patent WO2005045040.
ACCESSION CS096340
VERSION CS096340.1 GI:66952813

KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 165 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1173 GCTUGAGAGAGCUGGCG 1191

Db 19 GCTUGAGAGAGCUGGCG 1

RESULT 191
CS096341/c

LOCUS
DEFINITION Sequence 166 from Patent WO2005045040.
ACCESSION CS096341
VERSION CS096341.1 GI:66952814

KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 166 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1191 GAUGGUGACUCGAGAGG 1209

Db 19 GATGTGACCTTGAGAGG 1

RESULT 192
CS096342/c 19 bp RNA linear PAT 03-JUN-2005

LOCUS
DEFINITION Sequence 167 from Patent WO2005045040.
ACCESSION CS096342
VERSION CS096342.1 GI:66952815

KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 167 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1209 GAAAGCCGACAGCUGCAG 1227

Db 19 GAAAGCCGACAGCUGCAG 1

RESULT 193
CS096343/c 19 bp RNA linear PAT 03-JUN-2005

LOCUS
DEFINITION Sequence 168 from Patent WO2005045040.
ACCESSION CS096343
VERSION CS096343.1 GI:66952816

KEYWORDS

/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1065 GGACATUGGCTCCGAGACG 1083

Db 19 GGACATTTGGCTCCGAGACG 1

RESULT 185
LOCUS CS096335/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 160 from Patent WO2005045040.
ACCESSION CS096335
VERSION CS096335.1 GI:66952808

KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)

JOURNAL Patent: WO 2005045040-A 160 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1083 GAGAGCCAUCCUCCAUCC 1101

Db 19 GAGAGCCATCTACTCCATC 1

RESULT 186
LOCUS CS096336/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 161 from Patent WO2005045040.
ACCESSION CS096336
VERSION CS096336.1 GI:66952809

KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)

JOURNAL Patent: WO 2005045040-A 161 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1101 CGUCUCAGCUCUCGGCU 1119

Db 19 CGGCTCAAGCTTCCGGGT 1

RESULT 187
LOCUS CS096337/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 162 from Patent WO2005045040.
ACCESSION CS096337
VERSION CS096337.1 GI:66952810

KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)

JOURNAL Patent: WO 2005045040-A 162 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1119 UCACAGCACCACUCCUAC 1137

Db 19 TCACAGCACCACCTCTCAC 1

RESULT 188
LOCUS CS096338/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 163 from Patent WO2005045040.
ACCESSION CS096338
VERSION CS096338.1 GI:66952811

KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)

JOURNAL Patent: WO 2005045040-A 163 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1137 CUCCACCAAGUUAACCCUCA 1155

1:|||||:|||||:|||||:|||||

AUTHORS	Richards,I. and Macswiggen,J.
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL	Patent: WO 2005045040-A 155 19-MAY-2005;
FEATURES	SiRNA Therapeutics, Inc. (US)
source	location/Qualifiers
	1..19
	/organism="synthetic construct"
	/mol_type="unassigned RNA"
	/db_xref="taxon:32630"
	/note="Description of Artificial Sequence: siNA antisense region"
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	84.2%; Pred. No. 84;
Matches	16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY	993 CAGCAGCAGUGACAGUGG 1011
Db	19 CAGCAGCAGTGCAGATTG3 1
RESULT 181	
CS096331/c	
LOCUS	CS096331 19 bp RNA
DEFINITION	Sequence 156 from Patent WO2005045040.
ACCESSION	CS096331
VERSION	CS096331.1 GI:66952804
KEYWORDS	
SOURCE	synthetic construct
ORGANISM	synthetic construct
REFERENCE	other sequences; artificial sequences.
AUTHORS	1
TITLE	Richards,I. and Macswiggen,J.
JOURNAL	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
FEATURES	Patent: WO 2005045040-A 156 19-MAY-2005;
source	SiRNA Therapeutics, Inc. (US)
	location/Qualifiers
	1..19
	/organism="synthetic construct"
	/mol_type="unassigned RNA"
	/db_xref="taxon:32630"
	/note="Description of Artificial Sequence: siNA antisense region"
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	78.9%; Pred. No. 84;
Matches	15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY	1011 GAACAACAUGAUGUCUGU 1029
Db	19 GAACAACAATGATGCTGCT 1
RESULT 182	
CS096332/c	
LOCUS	CS096332 19 bp RNA
DEFINITION	Sequence 157 from Patent WO2005045040.
ACCESSION	CS096332
VERSION	CS096332.1 GI:66952805
KEYWORDS	
SOURCE	synthetic construct
ORGANISM	synthetic construct
REFERENCE	other sequences; artificial sequences.
AUTHORS	1
TITLE	Richards,I. and Macswiggen,J.
JOURNAL	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
FEATURES	Patent: WO 2005045040-A 157 19-MAY-2005;

FEATURES	source	1. .19	/organism="synthetic construct"	/mol_type="unassigned RNA"	/db_xref="taxon:32630"	/note="Description of Artificial Sequence: siNA antisense region"
Query Match	1.1%; Score 19; DB 1; Length 19;					
Best Local Similarity	78.9%; Pred. No. 84;					
Matches	15; Conservative	4; Mismatches	0; Indels	0; Gaps	0;	
QY	1029 UGCCUCCCGAGAACTCC	1047				
Db	19 TGCCCTCCTCGAGAACTCC	1				
RESULT 183						
LOCUS	CS096333/c	19 bp	RNA	linear	PAT 03-JUN-2005	
DEFINITION	Sequence 158 from Patent WO2005045040.					
ACCESSION	CS096333					
VERSION	CS096333.1	GI:66952806				
KEYWORDS						
SOURCE	synthetic construct					
ORGANISM	synthetic construct					
REFERENCE	other sequences; artificial sequences.					
AUTHORS	1					
TITLE	Richards, I. and Macswigen, J.					
JOURNAL	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)					
FEATURES	Patent: WO 2005045040-A 158 19-MAY-2005; Sirna Therapeutics, Inc. (US)					
source	Location/Qualifiers					
	1. .19					
	/organism="synthetic construct"					
	/mol_type="unassigned RNA"					
	/db_xref="taxon:32630"					
	/note="Description of Artificial Sequence: siNA antisense region"					
Query Match	1.1%; Score 19; DB 1; Length 19;					
Best Local Similarity	89.5%; Pred. No. 84;					
Matches	17; Conservative	2; Mismatches	0; Indels	0; Gaps	0;	
QY	1047 CGCCUCCCGACGAGGAG	1065				
Db	19 CGCCTCCTCGACGAGGAG	1				
RESULT 184						
LOCUS	CS096334/c	19 bp	RNA	linear	PAT 03-JUN-2005	
DEFINITION	Sequence 159 from Patent WO2005045040.					
ACCESSION	CS096334					
VERSION	CS096334.1	GI:66952807				
KEYWORDS						
SOURCE	synthetic construct					
ORGANISM	synthetic construct					
REFERENCE	other sequences; artificial sequences.					
AUTHORS	1					
TITLE	Richards, I. and Macswigen, J.					
JOURNAL	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)					
FEATURES	Patent: WO 2005045040-A 159 19-MAY-2005; Sirna Therapeutics, Inc. (US)					
source	Location/Qualifiers					
	1. .19					
	/organism="synthetic construct"					
	/mol_type="unassigned RNA"					

CS096326/c
LOCUS CS096326 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 151 from Patent WO2005045040.
ACCESSION CS096326
VERSION CS096326.1 GI:66952799
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 151 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 921 GUAGGCGCGCCGACACUUC 939
Db 19 GTATGGCCGCTCCCACTTC 1

RESULT 177
LOCUS CS096327/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 152 from Patent WO2005045040.
ACCESSION CS096327
VERSION CS096327.1 GI:66952800
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 152 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 939 CUGGUCACACCAAGAGC 957
Db 19 CTGGTTCACACCAAGAGC 1

RESULT 178
LOCUS CS096328/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 153 from Patent WO2005045040.
ACCESSION CS096328
VERSION CS096328.1 GI:66952801

KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 153 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 957 CUGAAACCCAGCUCGAG 975
Db 19 CTGGAACCCAGCTCCGAG 1

RESULT 179
LOCUS CS096329/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 154 from Patent WO2005045040.
ACCESSION CS096329
VERSION CS096329.1 GI:66952802
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 154 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 975 GCAGATGACCAAGACCAC 993
Db 19 GCAGATGACCAAGACCAC 1

RESULT 180
LOCUS CS096330/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 155 from Patent WO2005045040.
ACCESSION CS096330
VERSION CS096330.1 GI:66952803
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 155 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 831 AGAAAACTUUGCCACCCC 849
Db 19 AGAAAACTTGTCCACCCC 1

RESULT 172
LOCUS CS096322/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 147 from Patent WO2005045040.
ACCESSION CS096322
VERSION CS096322.1 GI:66952795
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 147 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 849 CACGGGCAAGUUCGAAAC 867
Db 19 CACGGGCAAGTCTCGAAGC 1

RESULT 173
LOCUS CS096323/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 148 from Patent WO2005045040.
ACCESSION CS096323
VERSION CS096323.1 GI:66952796
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 148 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 867 CUGCAGAGUUGAAGAACTU 885

Db 19 CTGCAGCAGTTACGAACCTT 1

RESULT 174
LOCUS CS096324 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 149 from Patent WO2005045040.
ACCESSION CS096324
VERSION CS096324.1 GI:66952797
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 149 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 885 UCAACAGCAAGCAUGAAA 903
Db 19 TCAACAGCAAGCATGAAA 1

RESULT 175
LOCUS CS096325/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 150 from Patent WO2005045040.
ACCESSION CS096325
VERSION CS096325.1 GI:66952798
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 150 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 903 ACGCUCACAGAGAGAG 921
Db 19 ACGCTCAACAGAGAGAG 1

RESULT 176

JOURNAL Patent: WO 2005045040-A 142 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1.19

/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 759 GAUCUUAAGAAACUGAA 777
DB 19 GATCTATAAGAAACTGAA 1

RESULT 168
CS096318/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 143 from Patent WO2005045040.
DEFINITION CS096318
ACCESSION CS096318.1 GI:66952791
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 143 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1.19

/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 777 AAAGCGUACCAAGAGCUU 795
DB 19 AAAGCGTACCAAGAGCTT 1

RESULT 169
CS096319/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 144 from Patent WO2005045040.
DEFINITION CS096319
ACCESSION CS096319.1 GI:66952792
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 144 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1.19

/organism="synthetic construct"

/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 795 UGCGGCCUGCAAGCCUCU 813
DB 19 TGCTGCGCTGCAAGCCTCT 1

RESULT 170
CS096320/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 145 from Patent WO2005045040.
DEFINITION CS096320
ACCESSION CS096320.1 GI:66952793
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 145 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1.19

/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 813 UGGACAGAGCGAGACA 831
DB 19 TGGACAGAGCGAGACACA 1

RESULT 171
CS096321/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 146 from Patent WO2005045040.
DEFINITION CS096321
ACCESSION CS096321.1 GI:66952794
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 146 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1.19

/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

VERSION CS096313.1 GI:66952786
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 138 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 687 CACCAUACUUUGGACA 705
Db 19 CACCACTACTTTGGCACA 1

RESULT 164
LOCUS CS096314/c 19 bp RNA
DEFINITION Sequence 139 from Patent WO2005045040.
ACCESSION CS096314
VERSION CS096314.1 GI:66952787
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 139 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 84;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

OY 705 AGCCAUCCGCGCUUUUUAU 723
Db 19 AGCCATCGCTGCTTTTAT 1

RESULT 165
LOCUS CS096315/c 19 bp RNA
DEFINITION Sequence 140 from Patent WO2005045040.
ACCESSION CS096315
VERSION CS096315.1 GI:66952788
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 140 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

OY 723 UAUGCCUGUACCAUUAUG 741
Db 19 TATGCTGTACCAATTATG 1

RESULT 166
LOCUS CS096316/c 19 bp RNA
DEFINITION Sequence 141 from Patent WO2005045040.
ACCESSION CS096316
VERSION CS096316.1 GI:66952789
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 141 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

OY 741 GACUUAUUUAACUGAGG 759
Db 19 GACTATTTTATCTGAGG 1

RESULT 167
LOCUS CS096317/c 19 bp RNA
DEFINITION Sequence 142 from Patent WO2005045040.
ACCESSION CS096317
VERSION CS096317.1 GI:66952790
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

QY 597 UUGGCGCUCGCAUCUG 615
DB 19 TTGGGCTCCTGCATCTTG 1

RESULT 159
CS096309/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 134 from Patent WO2005045040.
DEFINITION CS096309
ACCESSION CS096309.1 GI:66952782
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 synthetic construct
other sequences; artificial sequences.
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 134 19-MAY-2005;
Sima Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 84;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

QY 615 GUUCUGCAUAUCUGU 633
DB 19 GTTCTGCAATACCTTGT 1

RESULT 160
CS096310/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 135 from Patent WO2005045040.
DEFINITION CS096310
ACCESSION CS096310
VERSION CS096310.1 GI:66952783
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 synthetic construct
other sequences; artificial sequences.
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 135 19-MAY-2005;
Sima Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 633 UGGAAGAGAACUGCCU 651
DB 19 TGGAAAGAGAATGTGCTT 1

RESULT 161
CS096311/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 136 from Patent WO2005045040.
DEFINITION CS096311
ACCESSION CS096311
VERSION CS096311.1 GI:66952784
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 synthetic construct
other sequences; artificial sequences.
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 136 19-MAY-2005;
Sima Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 651 UCCGGAGAGUGCUCUAU 669
DB 19 TCCGGAGAGTGTCTCAT 1

RESULT 162
CS096312/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 137 from Patent WO2005045040.
DEFINITION CS096312
ACCESSION CS096312
VERSION CS096312.1 GI:66952785
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 synthetic construct
other sequences; artificial sequences.
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 137 19-MAY-2005;
Sima Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 669 UCAGUCUCAGAGAGCC 687
DB 19 TCAGTTCCTAGAGAGCC 1

RESULT 163
CS096313/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 138 from Patent WO2005045040.
DEFINITION CS096313
ACCESSION

/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 525 GUACGAGCCAAACGACA 543
|:|||||
Db 19 GTACGAGCCAAACGACA 1

RESULT 155
CS096305/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 130 from Patent WO2005045040.
DEFINITION CS096305
ACCESSION CS096305
VERSION CS096305.1 GI:66952778
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 130 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 543 AACAAAGAGCCGGUG 561
|:|||||
Db 19 AACAAAGAGCCGGGTG 1

RESULT 156
CS096306/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 131 from Patent WO2005045040.
DEFINITION CS096306
ACCESSION CS096306
VERSION CS096306.1 GI:66952779
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 131 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 561 GAUGAUCGUCUGGUCUGG 579
|:|||||
Db 19 GATGATCGGTCTGCTTGG 1

RESULT 157
CS096307/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 132 from Patent WO2005045040.
DEFINITION CS096307
ACCESSION CS096307
VERSION CS096307.1 GI:66952780
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 132 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 84;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

Qy 579 GGUCANUCCTUUGUCCU 597
|:|||||
Db 19 GGCATCTCTTGTCTTCTT 1

RESULT 158
CS096308/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 133 from Patent WO2005045040.
DEFINITION CS096308
ACCESSION CS096308
VERSION CS096308.1 GI:66952781
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 133 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 125 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 453 CAGCAAGCCUCUUAUG 471
|||||:|||||:|||||:
19 CAGCAATGCTCTGTATG 1

RESULT 151
LOCUS CS096301/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 126 from Patent WO2005045040.
ACCESSION CS096301
VERSION CS096301.1 GI:66952774
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 126 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 471 GAUUCUUGGUCACAGC 489
|||||:|||||:|||||:
19 GAATCTTTCGTATCAGC 1

RESULT 152
LOCUS CS096302/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 127 from Patent WO2005045040.
ACCESSION CS096302
VERSION CS096302.1 GI:66952775
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic

Acid (siNA)
JOURNAL Patent: WO 2005045040-A 127 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 84;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 489 CUUGACAGACUCUUCC 507
|||||:|||||:|||||:
19 CTTTGACAGTACTTTCC 1

RESULT 153
LOCUS CS096303/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 128 from Patent WO2005045040.
ACCESSION CS096303
VERSION CS096303.1 GI:66952776
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 128 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 507 CAUCACGAGCGCGUCACG 525
|||||:|||||:|||||:
19 CATCAGAGCGCGCTCAGC 1

RESULT 154
LOCUS CS096304 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 129 from Patent WO2005045040.
ACCESSION CS096304
VERSION CS096304.1 GI:66952777
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 129 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19

RESULT 146
CS096296/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096296
DEFINITION Sequence 121 from Patent WO2005045040.
ACCESSION CS096296
VERSION CS096296.1 GI:66952769
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 121 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 381 CUAGCAUCAGCAUCGA 399
Db 19 CTACATCATCATGATCGA 1

RESULT 147
CS096297/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096297
DEFINITION Sequence 122 from Patent WO2005045040.
ACCESSION CS096297
VERSION CS096297.1 GI:66952770
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 122 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 399 AUGGCGCUUAGGGAACUG 417
Db 19 ATGGGCTTAGGGAACCTTG 1

RESULT 148
CS096298/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096298
DEFINITION Sequence 123 from Patent WO2005045040.

ACCESSION CS096298
VERSION CS096298.1 GI:66952771
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 123 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 417 GGCCUGGACUCUGGCUU 435
Db 19 GGCCUGGACUCUGGCUU 1

RESULT 149
CS096299/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096299
DEFINITION Sequence 124 from Patent WO2005045040.
ACCESSION CS096299
VERSION CS096299.1 GI:66952772
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 124 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 435 UGCCAUGACUAGUAGCC 453
Db 19 TGCCATTGACTACGTAGCC 1

RESULT 150
CS096300/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096300
DEFINITION Sequence 125 from Patent WO2005045040.
ACCESSION CS096300
VERSION CS096300.1 GI:66952773
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct

region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 291 GCAGCTGAGACGCGTCAAC 309
DB 19 GCAGCTGAGACGCGTCAAC 1

RESULT 142
LOCUS CS096292/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 117 from Patent WO2005045040.
ACCESSION CS096292
VERSION CS096292.1 GI:66952765
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 117 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 309 CAACUACUUCUCUUAAGC 327
DB 19 CAACUACUUCUCUUAAGC 1

RESULT 143
LOCUS CS096293/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 118 from Patent WO2005045040.
ACCESSION CS096293
VERSION CS096293.1 GI:66952766
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 118 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 327 CCUGGCGUGGCCGAUUCG 345
DB 19 CCGGCGCTGGCGGATCTG 1

RESULT 144
LOCUS CS096294/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 119 from Patent WO2005045040.
ACCESSION CS096294
VERSION CS096294.1 GI:66952767
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 119 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 345 GAUUAUCGGGCGUUAUCA 363
DB 19 GATTATCGGGGTCATTCA 1

RESULT 145
LOCUS CS096295/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 120 from Patent WO2005045040.
ACCESSION CS096295
VERSION CS096295.1 GI:66952768
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 120 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 363 AAUGAUCUGUUAACGACC 381
DB 19 AATGAATCTGTTCAGACC 1

receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 112 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 219 CUUACGGGCAUCCUGGCC 237
|:|||||:|:|:|
19 CTTAACGGGCATCTCGGCC 1

RESULT 138
CS096288/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096288
DEFINITION Sequence 113 from Patent WO2005045040.
ACCESSION CS096288
VERSION CS096288.1 GI:66952761
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 113 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 237 CTUGGUGACCAUCCGCGC 255
|:|||||:|:|:|
19 CTTGGTGACCATCATCGGC 1

RESULT 139
CS096289/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096289
DEFINITION Sequence 114 from Patent WO2005045040.
ACCESSION CS096289
VERSION CS096289.1 GI:66952762
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 114 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers

source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 255 CAACAUCGUGAUAUUGUG 273
|:|||||:|:|:|
19 CAACATCTGTGTAATTGTG 1

RESULT 140
CS096290/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096290
DEFINITION Sequence 115 from Patent WO2005045040.
ACCESSION CS096290
VERSION CS096290.1 GI:66952763
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 115 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 273 GUCAUUAAGGUCACACAG 291
|:|||||:|:|:|
19 GTCATTTAAGTCAACACAG 1

RESULT 141
CS096291/c 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096291
DEFINITION Sequence 116 from Patent WO2005045040.
ACCESSION CS096291
VERSION CS096291.1 GI:66952764
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 116 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match	Best Local Similarity	Score	DB	Length	Indels	Gaps	0;
Matches 16; Conservative	3; Mismatches	0;	Indels	0;	Gaps	0;	
1.1%;	Score 19;	DB 1;	Length 19;				
84.2%;	Pred. No. 84;						
165 CACCGAUGACCCUCUGGA	183						
19 CACCGATGACCTCTGGGA	1						
LOCUS CS096285/C	19 bp	RNA	linear	PAT 03-JUN-2005			
DEFINITION Sequence 110 from Patent WO2005045040.							
ACCESSION CS096285							
VERSION CS096285.1	GI:66952758						
KEYWORDS							
SOURCE	synthetic construct						
DEFINITION Sequence 108 from Patent WO2005045040.							
ACCESSION CS096283							
VERSION CS096283.1	GI:66952756						
KEYWORDS							
SOURCE	synthetic construct						
ORGANISM	synthetic construct						
REFERENCE	other sequences; artificial sequences.						
AUTHORS	1 Richards, I. and Macswiggen, J.						
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)						
JOURNAL	Patent: WO 2005045040-A 108 19-MAY-2005;						
FEATURES	Location/Qualifiers						
source	1..19						
	/organism="synthetic construct"						
	/mol_type="unassigned RNA"						
	/db_xref="taxon:32630"						
	/note="Description of Artificial Sequence: siNA antisense region"						
Query Match	Best Local Similarity	Score	DB	Length	Indels	Gaps	0;
Matches 15; Conservative	4; Mismatches	0;	Indels	0;	Gaps	0;	
1.1%;	Score 19;	DB 1;	Length 19;				
78.9%;	Pred. No. 84;						
147 CUCCUCUCCAGACGGUACC	165						
19 CTCTCTCCAGACGGTACC	1						
LOCUS CS096284	19 bp	RNA	linear	PAT 03-JUN-2005			
DEFINITION Sequence 109 from Patent WO2005045040.							
ACCESSION CS096284							
VERSION CS096284.1	GI:66952757						
KEYWORDS							
SOURCE	synthetic construct						
ORGANISM	synthetic construct						
REFERENCE	other sequences; artificial sequences.						
AUTHORS	1 Richards, I. and Macswiggen, J.						
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)						
JOURNAL	Patent: WO 2005045040-A 109 19-MAY-2005;						
FEATURES	Location/Qualifiers						
source	1..19						
	/organism="synthetic construct"						
	/mol_type="unassigned RNA"						
	/db_xref="taxon:32630"						
	/note="Description of Artificial Sequence: siNA antisense region"						

ORGANISM	synthetic construct	artificial sequences.
REFERENCE	1	
AUTHORS	Richards, I. and Macswiggen, J.	
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)	
JOURNAL	Patent: WO 2005045040-A 110 19-MAY-2005;	
FEATURES	Location/Qualifiers	
source	1..19	
	/organism="synthetic construct"	
	/mol_type="unassigned RNA"	
	/db_xref="taxon:32630"	
	/note="Description of Artificial Sequence: siNA antisense region"	
Query Match	1.1%; Score 19; DB 1; Length 19;	
Best Local Similarity	78.9%; Pred. No. 84;	
Matches	15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;	
QY	183 AGUCAUACCGUCUGGCAA 201	
Db	19 AGTCATACCGTCTGGCAA 1	
RESULT 136		
CS096286/c	LOCUS	19 bp RNA linear PAT 03-JUN-2005
DEFINITION	Sequence 111 from Patent WO2005045040.	
ACCESSION	CS096286	
VERSION	CS096286.1 GI:66952759	
KEYWORDS	synthetic construct	
SOURCE	synthetic construct	
ORGANISM	other sequences; artificial sequences.	
REFERENCE	1	
AUTHORS	Richards, I. and Macswiggen, J.	
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)	
JOURNAL	Patent: WO 2005045040-A 111 19-MAY-2005;	
FEATURES	Location/Qualifiers	
source	1..19	
	/organism="synthetic construct"	
	/mol_type="unassigned RNA"	
	/db_xref="taxon:32630"	
	/note="Description of Artificial Sequence: siNA antisense region"	
Query Match	1.1%; Score 19; DB 1; Length 19;	
Best Local Similarity	57.9%; Pred. No. 84;	
Matches	11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;	
QY	201 AGUGGUCUACUGCGCUTC 219	
Db	19 AGTGCTCTCATCGCTTTC 1	
RESULT 137		
CS096287/c	LOCUS	19 bp RNA linear PAT 03-JUN-2005
DEFINITION	Sequence 112 from Patent WO2005045040.	
ACCESSION	CS096287	
VERSION	CS096287.1 GI:66952760	
KEYWORDS	synthetic construct	
SOURCE	synthetic construct	
ORGANISM	other sequences; artificial sequences.	
REFERENCE	1	
AUTHORS	Richards, I. and Macswiggen, J.	
TITLE	RNA interference mediated inhibition of cholinergic muscarinic	

Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 57 CUGAUAACAGCCCTCC 75
Db 19 CTGATACAGACCCCTCC 1

RESULT 129
CS096279/c
LOCUS CS096279 19 bp RNA
DEFINITION Sequence 104 from Patent WO2005045040.
ACCESSION CS096279
VERSION CS096279.1 GI:66952752
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
synthetic construct
other sequences; artificial sequences.

1
Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 104 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 75 CGAUGCAGGCGGCCCG 93
Db 19 CGATCGAGGCGTCCCCG 1

RESULT 130
CS096280/c
LOCUS CS096280 19 bp RNA
DEFINITION Sequence 105 from Patent WO2005045040.
ACCESSION CS096280
VERSION CS096280.1 GI:66952753
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
synthetic construct
synthetic construct
other sequences; artificial sequences.

1
Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 105 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 93 GGAACCGUCACUCAUUC 111
Db 19 GGAACCGTCACATTC 1

RESULT 131
CS096281/c
LOCUS CS096281 19 bp RNA
DEFINITION Sequence 106 from Patent WO2005045040.
ACCESSION CS096281
VERSION CS096281.1 GI:66952754
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
synthetic construct
synthetic construct
other sequences; artificial sequences.

1
Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 106 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 111 CGGACGCUACAUGUUCU 129
Db 19 CGGACGCTACAAGTTCT 1

RESULT 132
CS096282/c
LOCUS CS096282 19 bp RNA
DEFINITION Sequence 107 from Patent WO2005045040.
ACCESSION CS096282
VERSION CS096282.1 GI:66952755
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
synthetic construct
synthetic construct
other sequences; artificial sequences.

1
Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 107 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 129 UCGACGACGUGCAUUCU 147
Db 19 TCGACGAGCTGCATTC 1

RESULT 133
CS096283/c
LOCUS CS096283 19 bp RNA
DEFINITION Sequence 108 from Patent WO2005045040.
ACCESSION CS096283
VERSION CS096283.1 GI:66952756
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
synthetic construct
synthetic construct
other sequences; artificial sequences.

1
Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 108 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

FEATURES
source
1. 19
Location/Qualifiers
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1753 GCACCCGAGCAGCCUUGU 1771
|||||
1 GCACCCGAGCAGCCCTTGT 19

RESULT 125
LOCUS CS096275/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 100 from Patent WO2005045040.
ACCESSION CS096275
VERSION CS096275.1 GI:66952748
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 100 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GACCTUGCACAUAACAGU 21
|||||
19 GACCTTGACATATACAGT 1

RESULT 126
LOCUS CS096276/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 101 from Patent WO2005045040.
ACCESSION CS096276
VERSION CS096276.1 GI:66952749
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 101 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"

/note="Description of Artificial Sequence: siNA antisense
region"

Query Match
Best Local Similarity 57.9%; Pred. No. 84;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 21 UACAACCTGCGCTTGT 39
:|||||
19 TACAACCTGCGCTTGT 1

RESULT 127
LOCUS CS096277/c 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 102 from Patent WO2005045040.
ACCESSION CS096277
VERSION CS096277.1 GI:66952750
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 102 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 39 UCAAAACAUACGCTCC 57
:|||||
19 TCAAAACATCAGCTCTCC 1

RESULT 128
LOCUS CS096278 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 103 from Patent WO2005045040.
ACCESSION CS096278
VERSION CS096278.1 GI:66952751
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 103 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: siNA antisense
region"

Query Match
Best Local Similarity 84.2%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 95 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1713 GCAGUACCGACGAGACAG 1731
|||||
Db 1 GCAGTACCGACGAGACAG 19

RESULT 122
LOCUS CS096272 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 97 from Patent WO2005045040.
ACCESSION CS096272
VERSION CS096272.1 GI:66952745
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.

TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 97 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1731 GUCCGUCAUUUUCCACAG 1749
|||||
Db 1 GTCGCTCATTTTCACAG 19

RESULT 123
LOCUS CS096273 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 98 from Patent WO2005045040.
ACCESSION CS096273
VERSION CS096273.1 GI:66952746
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 98 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1749 GCGCGCACCCGACGAGGCC 1767
|||||
Db 1 GCGCGCACCCGACGAGGCC 19

RESULT 124
LOCUS CS096274 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 99 from Patent WO2005045040.
ACCESSION CS096274
VERSION CS096274.1 GI:66952747
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 99 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Db 1 CAACAGCACCGTAGACCC 19

RESULT 116

LOCUS CS096266 19 bp RNA

DEFINITION Sequence 91 from Patent WO2005045040.

ACCESSION CS096266

VERSION CS096266.1 GI:66952739

KEYWORDS

SOURCE synthetic construct

ORGANISM synthetic construct

REFERENCE 1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

AUTHORS

TITLE

JOURNAL Patent: WO 2005045040-A 91 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES

source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 1623 CGUGGCUAUGCUCUGC 1641

Db 1 CGTGTCTAGCTCTGTGC 19

RESULT 117

LOCUS CS096267 19 bp RNA

DEFINITION Sequence 92 from Patent WO2005045040.

ACCESSION CS096267

VERSION CS096267.1 GI:66952740

KEYWORDS

SOURCE synthetic construct

ORGANISM synthetic construct

REFERENCE 1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

AUTHORS

TITLE

JOURNAL Patent: WO 2005045040-A 92 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES

source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1641 CAACAAAACAUUCAGACC 1659

Db 1 CAACAAAACATTCAAGACC 19

RESULT 118

CS096268

LOCUS CS096268 19 bp RNA

DEFINITION Sequence 93 from Patent WO2005045040.

ACCESSION CS096268

VERSION CS096268.1 GI:66952741

KEYWORDS

SOURCE synthetic construct

ORGANISM synthetic construct

REFERENCE 1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

AUTHORS

TITLE

JOURNAL Patent: WO 2005045040-A 93 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES

source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1659 CACUUCACAGUCGUCG 1677

Db 1 CACTTCAAGATGCTGCTG 19

RESULT 119

LOCUS CS096269 19 bp RNA

DEFINITION Sequence 94 from Patent WO2005045040.

ACCESSION CS096269

VERSION CS096269.1 GI:66952742

KEYWORDS

SOURCE synthetic construct

ORGANISM synthetic construct

REFERENCE 1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

AUTHORS

TITLE

JOURNAL Patent: WO 2005045040-A 94 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

FEATURES

source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1677 GCUUGCCAGUGUACA 1695

Db 1 GCTGTGCCAGTGTACAAA 19

RESULT 120

LOCUS CS096270 19 bp RNA

DEFINITION Sequence 95 from Patent WO2005045040.

ACCESSION CS096270

VERSION CS096270.1 GI:66952743

KEYWORDS

/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 84;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 1533 UUGUGAAGACCCUUUGU 1551
Db 1 TCTGGGAACACCTTTTGT 19

RESULT 112

LOCUS CS096262 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 87 from Patent WO2005045040.
ACCESSION CS096262
VERSION CS096262.1 GI:66952735
KEYWORDS

SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 87 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1551 UGACAGCUGCAUACCCAA 1569
Db 1 TGACAGCTGCAATCCCAA 19

RESULT 113

LOCUS CS096263 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 88 from Patent WO2005045040.
ACCESSION CS096263
VERSION CS096263.1 GI:66952736
KEYWORDS

SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 88 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1569 AACCUUUGAAUUCGGGC 1587
Db 1 AACCTTGGAAATCGGGC 19

RESULT 114

LOCUS CS096264 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 89 from Patent WO2005045040.
ACCESSION CS096264
VERSION CS096264.1 GI:66952737
KEYWORDS

SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 89 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1587 CUACUGCUGUCUACAU 1605
Db 1 CTACTGGCTGCTACATC 19

RESULT 115

LOCUS CS096265 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 90 from Patent WO2005045040.
ACCESSION CS096265
VERSION CS096265.1 GI:66952738
KEYWORDS

SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 90 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1605 CAACAGACCGGAACCCC 1623
|||||||

AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 82 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1461 GAAAGCGGCCGAGACCCUC 1479
Db 1 GAAAGCGGCCGAGACCCCTC 19

RESULT 108
LOCUS CS096258 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 83 from Patent WO2005045040.
ACCESSION CS096258
VERSION CS096258.1 GI:66952731
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 83 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1479 CAGUCGCAUCUCUGCC 1497
Db 1 CAGTCGATCTTGCTTGC 19

RESULT 109
LOCUS CS096259 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 84 from Patent WO2005045040.
ACCESSION CS096259
VERSION CS096259.1 GI:66952732
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 84 19-MAY-2005;

FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1497 CUUCAUACAUCUGACC 1515
Db 1 CTTCAATCACTTGAGCC 19

RESULT 110
LOCUS CS096260 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 85 from Patent WO2005045040.
ACCESSION CS096260
VERSION CS096260.1 GI:66952733
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 85 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1515 CCCAUAACAUAUGGU 1533
Db 1 CCCATACAACATCATGT 19

RESULT 111
LOCUS CS096261 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 86 from Patent WO2005045040.
ACCESSION CS096261
VERSION CS096261.1 GI:66952734
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 86 19-MAY-2005;
FEATURES
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"

CS096253 LOCUS CS096253 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 78 from Patent WO2005045040.
ACCESSION CS096253
VERSION CS096253.1 GI:66952726
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 78 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
Qy 1389 GGCCAGAGGUGUCUG 1407
Db 1 GGCCAGAGGTTGCTCTG 19
RESULT 104
LOCUS CS096254 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 79 from Patent WO2005045040.
ACCESSION CS096254
VERSION CS096254.1 GI:66952727
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 79 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 1407 GAAGCCGAGAGUCAGAGC 1425
Db 1 GAAGCCGAGAGTCAGATC 19
RESULT 105
LOCUS CS096255 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 80 from Patent WO2005045040.
ACCESSION CS096255
VERSION CS096255.1 GI:66952728

KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 80 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 1425 CACTAAGCGAAGAGAGC 1443
Db 1 CACTAAGCGAAGAGATG 19
RESULT 106
LOCUS CS096256 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 81 from Patent WO2005045040.
ACCESSION CS096256
VERSION CS096256.1 GI:66952729
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 81 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"
Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
Qy 1443 GUCCCTGUCAGAGAGC 1461
Db 1 GUCCCTGCTCAAGAGAG 19
RESULT 107
LOCUS CS096257 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 82 from Patent WO2005045040.
ACCESSION CS096257
VERSION CS096257.1 GI:66952730
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1299 AGCCGUGACACACGUAG 1317
|||||:|||||:|||||
DB 1 AGCCGTGACACAGCTAAG 19

RESULT 99
LOCUS CS096249 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 74 from Patent WO2005045040.
ACCESSION CS096249
VERSION CS096249.1 GI:66952722
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE

1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 74 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 1317 GACUUCGACGUCACUCC 1335
|||||:|||||:|||||
DB 1 GACTTCTACGTCACACTCC 19

RESULT 100
LOCUS CS096250 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 75 from Patent WO2005045040.
ACCESSION CS096250
VERSION CS096250.1 GI:66952723
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE

1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 75 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

JOURNAL
FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1335 CUCAGUGGGUAGACAGC 1353

DB 1 CTAAGTGGTAAGACAGC 19
|||||:|||||:|||||

RESULT 101
LOCUS CS096251 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 76 from Patent WO2005045040.
ACCESSION CS096251
VERSION CS096251.1 GI:66952724
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE

1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 76 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 1353 GGCACUUCACUUCUCC 1371
|||||:|||||:|||||
DB 1 GGCACCTCTACTCTCTCC 19

RESULT 102
LOCUS CS096252 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 77 from Patent WO2005045040.
ACCESSION CS096252
VERSION CS096252.1 GI:66952725
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE

1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 77 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

JOURNAL
FEATURES
source

1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 77 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1371 CUUCAGAGCCACUCC 1389
|||||:|||||:|||||
DB 1 CTTCAAGAGCCACTCTG 19

RESULT 103

JOURNAL Patent: WO 2005045040-A 69 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1227 GGCCCGAAGAGCGTGCAC 1245
|||||
Db 1 GGCCCGAAGAGCGTGCAC 19

RESULT 95
CS096245 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096245
DEFINITION Sequence 70 from Patent WO2005045040.
ACCESSION CS096245
VERSION CS096245.1 GI:66952718
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 70 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1245 CGAUGAGGCGAGUUNUCCA 1263
|||||
Db 1 CGATGAGGCGAGTTTCCA 19

RESULT 96
CS096246 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096246
DEFINITION Sequence 71 from Patent WO2005045040.
ACCESSION CS096246
VERSION CS096246.1 GI:66952719
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 71 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"

/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1263 AAAAGCTUCCCAAGCTU 1281
|||||
Db 1 AAAAGCTTCTCCAGCTT 19

RESULT 97
CS096247 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096247
DEFINITION Sequence 72 from Patent WO2005045040.
ACCESSION CS096247
VERSION CS096247.1 GI:66952720
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 72 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1281 UCCCAUCCAGCUAGAGUCA 1299
|||||
Db 1 TCCCAUCCAGCTAGAGTCA 19

RESULT 98
CS096248 19 bp RNA linear PAT 03-JUN-2005
LOCUS CS096248
DEFINITION Sequence 73 from Patent WO2005045040.
ACCESSION CS096248
VERSION CS096248.1 GI:66952721
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 73 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

VERSION	KEYWORDS	CS096240.1	GI:66952713
SOURCE	synthetic construct		
ORGANISM	synthetic construct		
REFERENCE	other sequences; artificial sequences.		
AUTHORS	1 Richards, I. and Macewigsen, J.		
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)		
JOURNAL	Patent: WO 2005045040-A 65 19-MAY-2005;		
FEATURES	Stima Therapeutics, Inc. (US)		
source	Location/Qualifiers		
	1..19		
Query Match	1.1%: Score 19; DB 1; Length 19;		
Best Local Similarity	84.2%: Pred. No. 84;		
Matches	16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;		
Oy	1155 AUCGACACACCGCAGGUG 1173		
Db	1 ATCGGACACCTGCAGGTG 19		
RESULT 91			
CS096241			
LOCUS	CS096241 19 bp RNA	linear	PAT 03-JUN-2005
DEFINITION	Sequence 66 from Patent WO2005045040.		
ACCESSION	CS096241		
VERSION	CS096241.1 GI:66952714		
KEYWORDS			
SOURCE	synthetic construct		
ORGANISM	synthetic construct		
REFERENCE	other sequences; artificial sequences.		
AUTHORS	1 Richards, I. and Macewigsen, J.		
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)		
JOURNAL	Patent: WO 2005045040-A 66 19-MAY-2005;		
FEATURES	Stima Therapeutics, Inc. (US)		
source	Location/Qualifiers		
	1..19		
	/organism="synthetic construct"		
	/mol_type="unassigned RNA"		
	/db_xref="taxon:32630"		
	/note="Description of Artificial Sequence: Target		
	Sequence/siNA sense region"		
Query Match	1.1%: Score 19; DB 1; Length 19;		
Best Local Similarity	89.5%: Pred. No. 84;		
Matches	17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;		
Oy	1173 GCCUGAGAGAGCGCGG 1191		
Db	1 GCTGAGAGAGAGCGCTGGG 19		
RESULT 92			
CS096242			
LOCUS	CS096242 19 bp RNA	linear	PAT 03-JUN-2005
DEFINITION	Sequence 67 from Patent WO2005045040.		
ACCESSION	CS096242		
VERSION	CS096242.1 GI:66952715		
KEYWORDS			
SOURCE	synthetic construct		
ORGANISM	synthetic construct		
	other sequences; artificial sequences.		

REFERENCE	1	Richards, I. and Macswiggen, J.
AUTHORS		RNA interference mediated inhibition of cholinergic muscarinic
TITLE		receptor (CHRM3) gene expression using short interfering Nucleic
JOURNAL		Acid (siNA)
FEATURES		Patent: WO 2005045040-A 67 19-MAY-2005;
source		Sirna Therapeutics, Inc. (US)
		location/Qualifiers
	1..19	/organism="synthetic construct"
		/mol_type="unassigned RNA"
		/db_xref="taxon:32630"
		/note="Description of Artificial Sequence: Target
		Sequence/siNA sense region"
Query Match	1.1%;	Score 19; DB 1; Length 19;
Best Local Similarity	78.9%;	Pred. No. 84;
Matches	15; Conservative	4; Mismatches 0; Indels 0; Gaps 0;
OY	1191	GAUGUGAGACUUGAGAGG 1209
Db	1	GATGCTGACCTTGAGAGG 19
: :		
RESULT 93		
LOCUS	CS096243	19 bp, RNA
DEFINITION	Sequence 68 from Patent WO2005045040.	linear
ACCESSION	CS096243	PAT 03-JUN-2005
VERSION	CS096243.1	
KEYWORDS	GI:66952716	
SOURCE		
ORGANISM		synthetic construct
REFERENCE	1	synthetic construct
AUTHORS		other sequences; artificial sequences.
TITLE	1	
JOURNAL		Richards, I. and Macswiggen, J.
FEATURES		RNA interference mediated inhibition of cholinergic muscarinic
source		receptor (CHRM3) gene expression using short interfering Nucleic
		Acid (siNA)
		Patent: WO 2005045040-A 68 19-MAY-2005;
		Sirna Therapeutics, Inc. (US)
		location/Qualifiers
	1..19	/organism="synthetic construct"
		/mol_type="unassigned RNA"
		/db_xref="taxon:32630"
		/note="Description of Artificial Sequence: Target
		Sequence/siNA sense region"
Query Match	1.1%;	Score 19; DB 1; Length 19;
Best Local Similarity	94.7%;	Pred. No. 84;
Matches	18; Conservative	1; Mismatches 0; Indels 0; Gaps 0;
OY	1209	GAAGCCGACACAGCUCGAG 1227
Db	1	GAAGCCGACACAGTCGAG 19
: :		
RESULT 94		
LOCUS	CS096244	19 bp, RNA
DEFINITION	Sequence 69 from Patent WO2005045040.	linear
ACCESSION	CS096244	PAT 03-JUN-2005
VERSION	CS096244.1	
KEYWORDS	GI:66952717	
SOURCE		
ORGANISM		synthetic construct
REFERENCE	1	synthetic construct
AUTHORS		other sequences; artificial sequences.
TITLE	1	
JOURNAL		Richards, I. and Macswiggen, J.
FEATURES		RNA interference mediated inhibition of cholinergic muscarinic
source		receptor (CHRM3) gene expression using short interfering Nucleic
		Acid (siNA)

OY 1065 GGACAUUGGCUCCGAGACG 1083
|||||:|||||:|||||
DB 1 GGACATTCGCTCCGAGACG 19

RESULT 86
LOCUS CS096236 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 61 from Patent WO2005045040.
ACCESSION CS096236
VERSION CS096236.1 GI:66952709
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)

JOURNAL Patent: WO 2005045040-A 61 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1083 GAGAGCCAUCCUCCAUCC 1101
|||||:|||||:|||||
DB 1 GAGAGCCATCTACTCCTC 19

RESULT 87
LOCUS CS096237 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 62 from Patent WO2005045040.
ACCESSION CS096237
VERSION CS096237.1 GI:66952710
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 62 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 1101 CGUGGUCAGGUCGCGGU 1119
|||:|||||:|||||
DB 1 CGTGCTCAAGCTTCGGGT 19

RESULT 88
LOCUS CS096238 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 63 from Patent WO2005045040.
ACCESSION CS096238
VERSION CS096238.1 GI:66952711
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 63 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1119 UCACAGCACCAUCCUCAC 1137
:|||||:|||||:|||||
DB 1 TCACAGCACCAATCCTCAC 19

RESULT 89
LOCUS CS096239 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 64 from Patent WO2005045040.
ACCESSION CS096239
VERSION CS096239.1 GI:66952712
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 64 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1137 CUCACGCAAGUACCCUCA 1155
|:|||||:|||||:|||||
DB 1 CTCACGCAAGTTACCTCA 19

RESULT 90
LOCUS CS096240 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 65 from Patent WO2005045040.
ACCESSION CS096240

/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 993 CAGCAGACGAGACAGUUG 1011
Db 1 CAGCAGACGAGACAGTTGG 19

RESULT 82
LOCUS CS096232 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 57 from Patent WO2005045040.
ACCESSION CS096232
VERSION CS096232.1 GI:66952705
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 57 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1011 GAACAACAUAUGUGUCU 1029
Db 1 GAACAACAATGATGCTGCT 19

RESULT 83
LOCUS CS096233 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 58 from Patent WO2005045040.
ACCESSION CS096233
VERSION CS096233.1 GI:66952706
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 58 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 UGCGUCCCGAGACUCC 1047
Db 1 TGCCCTCCCTCGAGAACTCC 19

RESULT 84
LOCUS CS096234 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 59 from Patent WO2005045040.
ACCESSION CS096234
VERSION CS096234.1 GI:66952707
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 59 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1047 CGCCUCCCGCAGCAGGAG 1065
Db 1 CGCCTCCTCCGACGAGGAG 19

RESULT 85
LOCUS CS096235 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 60 from Patent WO2005045040.
ACCESSION CS096235
VERSION CS096235.1 GI:66952708
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 60 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

FEATURES
source

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

other sequences; artificial sequences.

1
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 52 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1.
19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Oy 921 GUAGGCGCGCCGACATC 939
1 GTATGCGCGCTGCACATTC 19

RESULT 78
LOCUS CS096228 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 53 from Patent WO2005045040.
ACCESSION CS096228
VERSION CS096228.1 GI:66952701
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 53 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1.
19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Oy 939 CUGGUTCAACCAAGAGC 957
1 CTGTTCAACCAAGAGC 19

RESULT 79
LOCUS CS096229 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 54 from Patent WO2005045040.
ACCESSION CS096229
VERSION CS096229.1 GI:66952702
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic

Acid (siNA)
Patent: WO 2005045040-A 54 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1.
19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 957 CUGAAACCCAGCUCGAG 975
1 CTGAAACCCAGCTCGAG 19

RESULT 80
LOCUS CS096230 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 55 from Patent WO2005045040.
ACCESSION CS096230
VERSION CS096230.1 GI:66952703
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 55 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1.
19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 975 GCAGAGGACCAAGACAC 993
1 GCAGTGAACCAAGACAC 19

RESULT 81
LOCUS CS096231 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 56 from Patent WO2005045040.
ACCESSION CS096231
VERSION CS096231.1 GI:66952704
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 56 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1.
19

RESULT 73
CS096223
LOCUS CS096223 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 48 from Patent WO2005045040.
ACCESSION CS096223
VERSION CS096223.1 GI:66952696
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 48 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 849 CACGGGACAGUUCGGAAGC 867
|||||:|||||
1 CACGGGACAGTCTCGAAGC 19

RESULT 74
CS096224
LOCUS CS096224 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 49 from Patent WO2005045040.
ACCESSION CS096224
VERSION CS096224.1 GI:66952697
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 49 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 867 CUGCAGCAGUUCGGAACU 885
|||:|||||:|||||
1 CTGCAGCAGTTCGAACTT 19

RESULT 75
CS096225
LOCUS CS096225 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 50 from Patent WO2005045040.

ACCESSION CS096225
VERSION CS096225.1 GI:66952698
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 50 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 885 UCACACGCAAGCAUGAAA 903
:|||||:|||||:|||||
1 TCACACGCAACGATGAAA 19

RESULT 76
CS096226
LOCUS CS096226 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 51 from Patent WO2005045040.
ACCESSION CS096226
VERSION CS096226.1 GI:66952699
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 51 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 903 ACGCUCACACGAGGAGAG 921
|||||:|||||:|||||
1 ACGCUCACACGAGGAGAG 19

RESULT 77
CS096227
LOCUS CS096227 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 52 from Patent WO2005045040.
ACCESSION CS096227
VERSION CS096227.1 GI:66952700
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 52 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 759 GAUCUUAAGGAACUGAA 777
DB 1 GATCTATAAGAACTGAA 19

RESULT 69
LOCUS CS096219 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 44 from Patent WO2005045040.
ACCESSION CS096219
VERSION CS096219.1 GI:66952692
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 44 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 777 AAAGCGUACCAAGAGCUU 795
DB 1 AAAGCGTACCAAGAGCTT 19

RESULT 70
LOCUS CS096220 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 45 from Patent WO2005045040.
ACCESSION CS096220
VERSION CS096220.1 GI:66952693
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 45 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 795 UGCGCCUGCAAGCCUCU 813
DB 1 TCCTGACCTGCAGACCTCT 19

RESULT 71
LOCUS CS096221 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 46 from Patent WO2005045040.
ACCESSION CS096221
VERSION CS096221.1 GI:66952694
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 46 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 84;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 813 UGCGACAGAGCGCAGACCA 831
DB 1 TCGACACAGAGCGCAGACCA 19

RESULT 72
LOCUS CS096222 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 47 from Patent WO2005045040.
ACCESSION CS096222
VERSION CS096222.1 GI:66952695
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 47 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 831 AGAAAACUUGUCACACCC 849
DB 1 AGAAAACUUGUCACACCC 19

receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 39 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 687 CACCAUACUUGGCACA 705
|||||:|||||:
1 CACCATTACTTTGGCACA 19

RESULT 65
LOCUS CS096215 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 40 from Patent WO2005045040.
ACCESSION CS096215
VERSION CS096215.1 GI:66952688
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 40 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 84;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 705 AGCCAUGCUGCUUUUUAU 723
|||||:|||||:
1 AGCCATCGCTGCTTTTAAT 19

RESULT 66
LOCUS CS096216 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 41 from Patent WO2005045040.
ACCESSION CS096216
VERSION CS096216.1 GI:66952689
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 41 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

JOURNAL
FEATURES
Location/Qualifiers

source

1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 723 UAUGCCUGUACCAUUAUG 741
|||||:|||||:
1 TATGCCTGTACCATTTAAG 19

RESULT 67
LOCUS CS096217 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 42 from Patent WO2005045040.
ACCESSION CS096217
VERSION CS096217.1 GI:66952690
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 42 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 741 GACUUAUUUAACUGGAGC 759
|||||:|||||:
1 GACTATTTTATCTGGAGC 19

RESULT 68
LOCUS CS096218 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 43 from Patent WO2005045040.
ACCESSION CS096218
VERSION CS096218.1 GI:66952691
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
Patent: WO 2005045040-A 43 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

JOURNAL
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target

DEFINITION Sequence 35 from Patent WO2005045040.
ACCESSION CS096210
VERSION CS096210.1 GI:66952683
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 35 19-MAY-2005;
FEATURES
source
1.19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 84;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

OY 615 GUUCUGGCAUACUUGU 633
DB 1 GTTCGGCAATACCTTGT 19

RESULT 61
LOCUS CS096211 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 36 from Patent WO2005045040.
ACCESSION CS096211
VERSION CS096211.1 GI:66952684
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 36 19-MAY-2005;
FEATURES
source
1.19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 633 UGGAAGAAGACUGGCCU 651
DB 1 TCGAAGAGACTGTGCTT 19

RESULT 62
LOCUS CS096212 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 37 from Patent WO2005045040.
ACCESSION CS096212
VERSION CS096212.1 GI:66952685
KEYWORDS
SOURCE synthetic construct

ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 37 19-MAY-2005;
FEATURES
source
1.19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 651 UCCGGAGAGUGCCUUCAU 669
DB 1 TCCGGAGAGAGTCTTCATT 19

RESULT 63
LOCUS CS096213 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 38 from Patent WO2005045040.
ACCESSION CS096213
VERSION CS096213.1 GI:66952686
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 38 19-MAY-2005;
FEATURES
source
1.19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 669 UCAGUUCUCAGUGAGCCC 687
DB 1 TCAGTTCCTCAGTAGACC 19

RESULT 64
LOCUS CS096214 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 39 from Patent WO2005045040.
ACCESSION CS096214
VERSION CS096214.1 GI:66952687
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic

Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 525 GUACCGAGCCAAACGAACA 543
Db 1 GTACCGAGCCAAACGAACA 19

RESULT 56
LOCUS CS096206 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 31 from Patent WO2005045040.
ACCESSION CS096206
VERSION CS096206.1 GI:66952679
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 31 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 543 AACAAAGAGAGCCGUGUG 561
Db 1 AACAAAGAGAGCCGUGUG 19

RESULT 57
LOCUS CS096207 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 32 from Patent WO2005045040.
ACCESSION CS096207
VERSION CS096207.1 GI:66952680
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 32 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 561 GAUGAUGGUCUGGUCUGG 579
Db 1 GATGATCGGTCTGGCTTG 19

RESULT 58
LOCUS CS096208 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 33 from Patent WO2005045040.
ACCESSION CS096208
VERSION CS096208.1 GI:66952681
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 33 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 84;
Matches 10; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

QY 579 GGUCAUCCUCUUGUCUU 597
Db 1 GGTCACTCTCTTGTCTT 19

RESULT 59
LOCUS CS096209 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 34 from Patent WO2005045040.
ACCESSION CS096209
VERSION CS096209.1 GI:66952682
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE
AUTHORS
TITLE
1 Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 34 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 597 UUGGCGUCUUGCCAUUCG 615
Db 1 TTGGGCTCTCGCATCTTG 19

RESULT 60
LOCUS CS096210 19 bp RNA linear PAT 03-JUN-2005

FEATURES	Location/Qualifiers
source	1. .19

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0

QY 453 CAGCAUGCUCUUGUAUG 471
|||||:|:|:|:|:|
Db 1 CAGCAATGCCTCTGTATG 19

RESULT 52	LOCUS	CS096202	19 bp	RNA	linear	PAT 03-JUN-2005
DEFINITION	Sequence 27	from Patent WO2005045040.				
ACCESSION	CS096202					
VERSION	CS096202.1	GI:66952675				

REFERENCE	AUTHORS	TITLE
1	Richards, I. and Macswiggen, J.	RNA interference mediated inhibition of cholinergic muscarinic other sequences; artificial sequences.

JOURNAL Patent: WO 2005045040-A 27 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1. 19

Query Match	1.1%;	Score 19;	DB 1;	Length 19;
Best Local Similarity	68.4%;	Pred. No. 84;		
Matches 13;	Conservative 6;	Mismatches 0;	Indels 0;	Gaps 0;

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QY      471 GAUUCUUCUGUCAUACAGC 489
      |||:::|::|::|::|::|
Db      1 GAATCTTCTGGTCATCAGC 19

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RESULT 53			
CS096203			
LOCUS	19 bp	RNA	linear
DEFINITION	Sequence 28 from Patent WO2005045040.		PAT 03-JUN-2005

KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

JOURNAL Patent: WO 2005045040-A 28 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1. .19

/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match	1.1%	Score 19;	DB 1;	Length 19;
Best Local Similarity	57.9%	Pred. No. 84;		
Matches 11; Conservative	8;	Mismatches 0;	Indels 0;	Gaps 0.

```

QY      489 CUUGACAGAUACUUUCC 507
          ||::|||::||::||
Db      1 CTTGACAGATACTTTTC 19

```

RESULT	54
CS096204	
LOCUS	CS096204 19 bp RNA
DEFINITION	Sequence 29 from Patent WO2005045040.
ACCESSION	CS096204
VERSION	GI:66952677
PAT	03-JUN-2005

REFERENCE	AUTHORS	TITLE
1	Richards, I. and Macewicz, J.	other sequences; artificial sequences.
		RNA interference mediated inhibition of cholinergic muscarinic

JOURNAL Patent: WO 2005045040-A 29 19-MAY-2005
FEATURES Sirna Therapeutics, Inc. (US)
SOURCE location/Qualifiers
1. 19

/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match	1.1%	Score 19;	DB 1;	Length 19;
Best Local Similarity	89.5%	Pred. No. 84;		
Matches 17; Conservative	2;	Mismatches 0;	Indels 0;	Gaps 0;

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QY      507 CAUACGAGGCCGUCACG 525
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Db      1 CATCAGAGGCCGCTCACG 19

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RESULT 55			
CS096205			
LOCUS	19 bp	RNA	linear
DEFINITION	Sequence 30 from Patent WO2005045040.		PAT 03-JUN-2005

KEYWORDS
SOURCE
ORGANISM
other sequences; artificial sequences.

Acid (siNA)
Journal Patent : WO 2005045040-A 30 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
Features Location/Qualifiers

/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match	1.1%;	Score 19;	DB 1;	Length 19;
Best Local Similarity	94.7%;	Pred. NO. 84;		

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/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
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SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 22 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 381 CUACUACUACUACUACUACU 399
Db 1 CTACATCATCATCATCATCAT 19

RESULT 48
LOCUS CS096198 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 23 from Patent WO2005045040.
ACCESSION CS096198
VERSION CS096198.1 GI:66952671
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 23 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 399 AUGGACCUAGGACCUAGGACCU 417
Db 1 ATGGGCTTAGGACGACTTG 19

RESULT 49
LOCUS CS096199 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 24 from Patent WO2005045040.
ACCESSION CS096199
VERSION CS096199.1 GI:66952672
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.

TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 24 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 417 GGCCUGUAGCCUGUAGCCUGU 435
Db 1 GGCCUGUAGCCUGUAGCCUGU 19

RESULT 50
LOCUS CS096200 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 25 from Patent WO2005045040.
ACCESSION CS096200
VERSION CS096200.1 GI:66952673
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 25 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 435 UGCCAUGACUAGCUGAGCC 453
Db 1 TGCCATGACTACGAGC 19

RESULT 51
LOCUS CS096201 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 26 from Patent WO2005045040.
ACCESSION CS096201
VERSION CS096201.1 GI:66952674
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macswiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 26 19-MAY-2005;
Sirma Therapeutics, Inc. (US)

Db 1 GCAGCTGAAGACGCTCAAC 19

RESULT 43
LOCUS CS096193 19 bp RNA
DEFINITION Sequence 18 from Patent WO2005045040.
ACCESSION CS096193
VERSION CS096193.1 GI:66952666
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 18 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 309 CACTUCCUCCUUAACG 327
Db 1 CAACTACTTCTCTTAAGC 19

RESULT 44
LOCUS CS096194 19 bp RNA
DEFINITION Sequence 19 from Patent WO2005045040.
ACCESSION CS096194
VERSION CS096194.1 GI:66952667
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 19 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 327 CCUGGCCUGGCCGAUCUG 345
Db 1 CCTGGCTGTGCGCATCTG 19

RESULT 45
LOCUS CS096195

LOCUS CS096195 19 bp RNA
DEFINITION Sequence 20 from Patent WO2005045040.
ACCESSION CS096195
VERSION CS096195.1 GI:66952668
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 20 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 84;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 345 GAUUAUCCGCGGUCAUUA 363
Db 1 GATTATCGGCGGTCATTCA 19

RESULT 46
LOCUS CS096196 19 bp RNA
DEFINITION Sequence 21 from Patent WO2005045040.
ACCESSION CS096196
VERSION CS096196.1 GI:66952669
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Richards,I. and Macawiggen,J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
Patent: WO 2005045040-A 21 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
Location/Qualifiers

1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 363 AUAUAUCUGUUACGACC 381
Db 1 AATGAATCTGTTACGACC 19

RESULT 47
LOCUS CS096197 19 bp RNA
DEFINITION Sequence 22 from Patent WO2005045040.
ACCESSION CS096197
VERSION CS096197.1 GI:66952670
KEYWORDS

/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 219 CTTAACGGGCAATCTG3CC 237
|:::|||||:::|||||
Db 1 CTTAACGGGCAATCTG3CC 19

RESULT 39
CS096189
LOCUS CS096189 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 14 from Patent WO2005045040.
ACCESSION CS096189
VERSION CS096189.1 GI:66952662
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 14 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

JOURNAL
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 237 CUUGUGACCAUCAUCGCGC 255
|:::|||||:::|||||
Db 1 CTTGGTGAACCATCATCGCGC 19

RESULT 40
CS096190
LOCUS CS096190 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 15 from Patent WO2005045040.
ACCESSION CS096190
VERSION CS096190.1 GI:66952663
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 15 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

JOURNAL
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;

Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 255 CAACAUCCUGUAUUGUG 273
|:::|||||:::|||||
Db 1 CAACATCTGTAATGTG 19

RESULT 41
CS096191
LOCUS CS096191 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 16 from Patent WO2005045040.
ACCESSION CS096191
VERSION CS096191.1 GI:66952664
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 16 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

JOURNAL
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 273 GUCAUUUAAGGUCACAG 291
|:::|||||:::|||||
Db 1 GTCATTAAAGTCACAG 19

RESULT 42
CS096192
LOCUS CS096192 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 17 from Patent WO2005045040.
ACCESSION CS096192
VERSION CS096192.1 GI:66952665
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macswiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 17 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
LOCATION/Qualifiers
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

JOURNAL
source
1. 19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 291 GCAGCUGAAGCGGCAAC 309
|:::|||||:::|||||

AUTHORS	Richards, I. and Macswiggen, J.
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siRNA)
JOURNAL	Patent: WO 2005045040-A 9 19-MAY-2005;
FEATURES	SiRNA Therapeutics, Inc. (US)
source	Location/Qualifiers
	1..19
	/organism="synthetic construct"
	/mol_type="unassigned RNA"
	/db_xref="taxon:32630"
	/note="Description of Artificial Sequence: Target Sequence/siNA sense region"
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	78.9%; Pred. No. 84;
Matches	15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Qy	147 CUCCUCUCCAGACGUAACC 165
	: : : : : : : : : : : :
Db	1 CTCCTCTCCAGACGCTACC 19
RESULT 35	
LOCUS	CS096185 19 bp RNA linear PAT 03-JUN-2005
DEFINITION	Sequence 10 from Patent WO2005045040.
ACCESSION	CS096185
VERSION	CS096185.1 GI:66952658
KEYWORDS	.
SOURCE	synthetic construct
ORGANISM	synthetic construct
REFERENCE	other sequences; artificial sequences.
1	
AUTHORS	Richards, I. and Macswiggen, J.
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL	Patent: WO 2005045040-A 10 19-MAY-2005;
FEATURES	SiRNA Therapeutics, Inc. (US)
source	Location/Qualifiers
	1..19
	/organism="synthetic construct"
	/mol_type="unassigned RNA"
	/db_xref="taxon:32630"
	/note="Description of Artificial Sequence: Target Sequence/siNA sense region"
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	84.2%; Pred. No. 84;
Matches	16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
Qy	165 CACCGAUAACCCUUCUGGA 183
	: : : : : : : : : : : :
Db	1 CACCGATGACCCCTCGGA 19
RESULT 36	
LOCUS	CS096186 19 bp RNA linear PAT 03-JUN-2005
DEFINITION	Sequence 11 from Patent WO2005045040.
ACCESSION	CS096186
VERSION	CS096186.1 GI:66952659
KEYWORDS	.
SOURCE	synthetic construct
ORGANISM	synthetic construct
REFERENCE	other sequences; artificial sequences.
1	
AUTHORS	Richards, I. and Macswiggen, J.
TITLE	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL	Patent: WO 2005045040-A 11 19-MAY-2005;

FEATURES	Sirna Therapeutics, Inc. (US)
source	Location/Qualifiers
	1..19
	/organism="synthetic construct"
	/mol_type="unassigned RNA"
	/db_xref="taxon:32630"
	/note="Description of Artificial Sequence: Target Sequence/sirna sense region"
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	79.9%; Pred. No. 84;
Matches	15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
OY	183 AGUCUAUCCGUCUGGCAA 201
Db	1 AGTCAATACCGCTGGCAA 19
RESULT 37	
LOCUS	CS096187
DEFINITION	Sequence 12 from Patent WO2005045040.
ACCESSION	CS096187
VERSION	CS096187.1 GI:66952660
KEYWORDS	
SOURCE	synthetic construct
ORGANISM	synthetic construct
REFERENCE	other sequences; artificial sequences.
AUTHORS	1
TITLE	Richards, I. and Macawiggen, J.
	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL	Patent: WO 2005045040-A 12 19-MAY-2005;
FEATURES	Sirna Therapeutics, Inc. (US)
source	Location/Qualifiers
	1..19
	/organism="synthetic construct"
	/mol_type="unassigned RNA"
	/db_xref="taxon:32630"
	/note="Description of Artificial Sequence: Target Sequence/sirna sense region"
Query Match	1.1%; Score 19; DB 1; Length 19;
Best Local Similarity	57.9%; Pred. No. 84;
Matches	11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
OY	201 AGUGUCUUCACCGCUCUUC 219
Db	1 AGTGCTCTCATCGCTTTC 19
RESULT 38	
LOCUS	CS096188
DEFINITION	Sequence 13 from Patent WO2005045040.
ACCESSION	CS096188
VERSION	CS096188.1 GI:66952661
KEYWORDS	
SOURCE	synthetic construct
ORGANISM	synthetic construct
REFERENCE	other sequences; artificial sequences.
AUTHORS	1
TITLE	Richards, I. and Macawiggen, J.
	RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL	Patent: WO 2005045040-A 13 19-MAY-2005;
FEATURES	Sirna Therapeutics, Inc. (US)
source	Location/Qualifiers
	1..19
	/organism="synthetic construct"
	/mol_type="unassigned RNA"

CS096180 LOCUS CS096180 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 5 from Patent WO2005045040.
ACCESSION CS096180
VERSION CS096180.1 GI:66952653
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 5 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 84;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 75 CGAUGCAGGCGUCCCCG 93
|||||:|||||:|||||
Db 1 CGATGCAGGCGTCCCCG 19

RESULT 31
CS096181
LOCUS CS096181 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 6 from Patent WO2005045040.
ACCESSION CS096181
VERSION CS096181.1 GI:66952654
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 6 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 93 GGAACCGUACUACUUC 111
|||||:|||||:|||||
Db 1 GGAACCGUACUACUUC 19

RESULT 32
CS096182
LOCUS CS096182 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 7 from Patent WO2005045040.
ACCESSION CS096182
VERSION CS096182.1 GI:66952655

KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 7 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 84;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 111 CGGACGCUACAUGUUCU 129
|||||:|||||:|||||
Db 1 CGGACGCUACAUGUUCU 19

RESULT 33
CS096183
LOCUS CS096183 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 8 from Patent WO2005045040.
ACCESSION CS096183
VERSION CS096183.1 GI:66952656
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS
TITLE
1 Richards, I. and Macawiggen, J.
RNA interference mediated inhibition of cholinergic muscarinic
receptor (CHRM3) gene expression using short interfering Nucleic
Acid (siNA)
JOURNAL Patent: WO 2005045040-A 8 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 84;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 129 UCGAGCAGTGGCAUUC 147
:|||||:|||||:|||||
Db 1 TCGAGCAGTGGCAUUC 19

RESULT 34
CS096184
LOCUS CS096184 19 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 9 from Patent WO2005045040.
ACCESSION CS096184
VERSION CS096184.1 GI:66952657
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE
1

Query Match 1.1%; Score 20.6; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 67;
Matches 15; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 228 CAUCCUGCCUUGUGUACCACU 248
||:||||:||||:||||:
1 CATCCTGGCCCTGTTGACCACAT 21

RESULT 26
CS096176 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 1 from Patent WO2005045040.
DEFINITION CS096176
ACCESSION CS096176.1 GI:66952649
VERSION
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 1 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 3 GACCTUGACAAUAAACAGU 21
||||:||||:||||:||||:
1 GACCTTGACACATTAACAGT 19

RESULT 27
CS096177 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 2 from Patent WO2005045040.
DEFINITION CS096177
ACCESSION CS096177
VERSION CS096177.1 GI:66952650
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 2 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 84;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

OY 21 UACAACUUGCCUUGUUU 39

Db :||||:||||:||||:||||:
1 TACAACCTCGCCTTGTGT 19

RESULT 28
CS096178 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 3 from Patent WO2005045040.
DEFINITION CS096178
ACCESSION CS096178
VERSION CS096178.1 GI:66952651
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 3 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 84;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 39 UCCAACAUCAGCUCCTCC 57
:||||:||||:||||:||||:
1 TCCAACAATCAGCTCTCTCC 19

RESULT 29
CS096179 19 bp RNA linear PAT 03-JUN-2005
LOCUS Sequence 4 from Patent WO2005045040.
DEFINITION CS096179
ACCESSION CS096179
VERSION CS096179.1 GI:66952652
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 4 19-MAY-2005;
Sirma Therapeutics, Inc. (US)
FEATURES
source 1..19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.1%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 84;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 57 CUGAUACAGACCCCTCC 75
||:||||:||||:||||:||||:
1 CTGATACAGACCCCTCC 19

RESULT 30

receptor (CHRM3) gene expression using short interfering Nucleic Acid (siRNA)
Patent: WO 2005045040-A 203 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
Location/Qualifiers
1. .23
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 95.7%; Pred. No. 41;
Matches 22; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 973 GAGCAGUAGACCAAGACCAAG 995
DB 1 GAGCAGATGAGACCAAGACCAAG 23

RESULT 22
CS096379 23 bp RNA linear PAT 03-JUN-2005
LOCUS CS096379
DEFINITION Sequence 204 from Patent WO2005045040.
ACCESSION CS096379
VERSION CS096379.1 GI:66952852
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siRNA)
JOURNAL Patent: WO 2005045040-A 204 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES
source
1. .23
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
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Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 41;
Matches 21; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1710 GCAGCAGUACGACGACGACAGU 1732
DB 1 GCAGCAGTACCGACGACGACGACT 23

RESULT 23
CS096380 23 bp RNA linear PAT 03-JUN-2005
LOCUS CS096380
DEFINITION Sequence 205 from Patent WO2005045040.
ACCESSION CS096380
VERSION CS096380.1 GI:66952853
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siRNA)
JOURNAL Patent: WO 2005045040-A 205 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
FEATURES
Location/Qualifiers

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Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 41;
Matches 21; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1712 AGCAGUACCGACGACGACGUCG 1734
DB 1 AGCAGTACCGACGACGACGTCG 23

RESULT 24
CS096381 23 bp RNA linear PAT 03-JUN-2005
LOCUS CS096381
DEFINITION Sequence 206 from Patent WO2005045040.
ACCESSION CS096381
VERSION CS096381.1 GI:66952854
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Richards, I. and Macawiggen, J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siRNA)
JOURNAL Patent: WO 2005045040-A 206 19-MAY-2005;
Sirta Therapeutics, Inc. (US)
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 41;
Matches 21; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1713 GCAGUACCGACGACGACGUCG 1735
DB 1 GCAGTACCGACGACGACGTCG 23

RESULT 25
AX154389 21 bp DNA linear PAT 22-JUN-2001
LOCUS AX154389
DEFINITION Sequence 487 from Patent WO0138576.
ACCESSION AX154389
VERSION AX154389.1 GI:14536003
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.

REFERENCE 1
AUTHORS Cargill, M., Ireland, J.S. and Lander, E.S.
TITLE Human single nucleotide polymorphisms
JOURNAL Patent: WO 0138576-A 487 31-MAY-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
Location/Qualifiers
1. .21
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

DEFINITION Sequence 199 from Patent WO2005045040.
ACCESSION CS096374
KEYWORDS CS096374.1 GI:66952847
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 199 19-MAY-2005;
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 69.6%; Pred. No. 41;
Matches 16; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

OY 15 UACAGUACAACTCGCCUUGU 37
Db 1 TAACAGTACAACCTCGCCTTGT 23

RESULT 18
LOCUS CS096375 23 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 200 from Patent WO2005045040.
ACCESSION CS096375
VERSION CS096375.1 GI:66952848
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 200 19-MAY-2005;
FEATURES
source
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 65.2%; Pred. No. 41;
Matches 15; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

OY 19 AGUACAACCGCCUUGUUC 41
Db 1 AGTACACCTCGCCTTTGTTCC 23

RESULT 19
LOCUS CS096376 23 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 201 from Patent WO2005045040.
ACCESSION CS096376
VERSION CS096376.1 GI:66952849
KEYWORDS
SOURCE synthetic construct

ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 201 19-MAY-2005;
FEATURES
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/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 65.2%; Pred. No. 41;
Matches 15; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

OY 313 UACUUCUUAAGCCUGGCTUG 335
Db 1 TACTTCTCTTAAGCCTGCGCTG 23

RESULT 20
LOCUS CS096377 23 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 202 from Patent WO2005045040.
ACCESSION CS096377
VERSION CS096377.1 GI:66952850
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic receptor (CHRM3) gene expression using short interfering Nucleic Acid (siNA)
JOURNAL Patent: WO 2005045040-A 202 19-MAY-2005;
FEATURES
source
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/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target Sequence/siNA sense region"

Query Match 1.3%; Score 23; DB 1; Length 23;
Best Local Similarity 65.2%; Pred. No. 41;
Matches 15; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

OY 315 CUUCCUUAAGCCUGGCTUG 337
Db 1 CTTCTCTTAAGCCTGCGCTG 23

RESULT 21
LOCUS CS096378 23 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 203 from Patent WO2005045040.
ACCESSION CS096378
VERSION CS096378.1 GI:66952851
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Richards,I. and Macswiggen,J.
TITLE RNA interference mediated inhibition of cholinergic muscarinic

ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 30)
AUTHORS Pausch,M.H. and Wess,J.
TITLE Method of modifying function of heterogeneous G protein-coupled
JOURNAL Patent: JP 2002523091-A 4 30-JUL-2002;
BASF AG

COMMENT OS Artificial Sequence
PN JP 2002523091-A/4
PD 30-JUL-2002
PF 01-SEP-1999 JP 2000567692
PR 01-SEP-1998 US 60/098704
PI MARK HENRY PAUSCH,JURGEN WESS
PC C12N15/09,C07K14/72,C12N1/19,C12Q1/02,G01N33/15,G01N33/50, PC
G01N33/566,
PC G01N33/68/(C12N1/19,C12R1:865),C12N15/00
CC Description of Artificial Sequence:oligonucleotide FH Key
Location/Qualifiers
FT source 1..30
Location/Qualifiers
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/organism="Artificial Sequence".
Location/Qualifiers
1..30
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match 1..4%; Score 25.2; DB 1; Length 30;
Best Local Similarity 70.0%; Pred. No. 41;
Matches 21; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

OY 1495 GCCUUCAUCAUCUUGGACCCCAUACAAC 1524
DB 1 GCCTTATCATCATCGTGGACCCCTACACC 30

RESULT 14
BD235807 30 bp DNA linear PAT 17-JUL-2003
LOCUS Method of modifying function of heterogeneous G protein-coupled
DEFINITION receptor.
ACCESSION BD235807
VERSION BD235807.1 GI:33045577
KEYWORDS JP 2002523091-A/9.
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 30)
AUTHORS Pausch,M.H. and Wess,J.
TITLE Method of modifying function of heterogeneous G protein-coupled
JOURNAL Patent: JP 2002523091-A 9 30-JUL-2002;
BASF AG

COMMENT OS Artificial Sequence
PN JP 2002523091-A/9
PD 30-JUL-2002
PF 01-SEP-1999 JP 2000567692
PR 01-SEP-1998 US 60/098704
PI MARK HENRY PAUSCH,JURGEN WESS
PC C12N15/09,C07K14/72,C12N1/19,C12Q1/02,G01N33/15,G01N33/50, PC
G01N33/566,
PC G01N33/68/(C12N1/19,C12R1:865),C12N15/00
CC Description of Artificial Sequence:oligonucleotide FH Key
Location/Qualifiers
FT source 1..30
Location/Qualifiers
1..30
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Location/Qualifiers
1..30
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match 1..4%; Score 25.2; DB 1; Length 30;
Best Local Similarity 66.7%; Pred. No. 41;
Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

OY 1498 UUCAUACAUCAUCUUGACCCCAUACAAC 1527
DB 1 TTATCATCATCATCGTGGACCTCGTCAACATC 30

RESULT 15
AX249066 31 bp DNA linear PAT 28-SEP-2001
LOCUS Sequence 1145 from Patent WO0166800.
DEFINITION AX249066
ACCESSION AX249066
VERSION AX249066.1 GI:15863689
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.

REFERENCE 1
AUTHORS Cargill,M., Ireland,J.S. and Lander,E.S.
TITLE Human single nucleotide polymorphisms
JOURNAL Patent: WO 0166800-A 1145 13-SEP-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
Location/Qualifiers
source 1..31
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1..4%; Score 24.8; DB 1; Length 31;
Best Local Similarity 63.3%; Pred. No. 50;
Matches 19; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

OY 687 CACCAUACUUCUUGGCACACGCCAUUGCUCG 716
DB 1 CACCATCATCTTGTGGACTGCCATTGCTGC 30

RESULT 16
AX249249 31 bp DNA linear PAT 28-SEP-2001
LOCUS Sequence 1328 from Patent WO0166800.
DEFINITION AX249249
ACCESSION AX249249
VERSION AX249249.1 GI:15863872
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.

REFERENCE 1
AUTHORS Cargill,M., Ireland,J.S. and Lander,E.S.
TITLE Human single nucleotide polymorphisms
JOURNAL Patent: WO 0166800-A 1328 13-SEP-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
Location/Qualifiers
source 1..31
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1..4%; Score 24.8; DB 1; Length 31;
Best Local Similarity 63.3%; Pred. No. 50;
Matches 19; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

OY 1587 CUACUGGCUUGGCUACAUACAAGCACCGU 1616
DB 1 CTACTGGCTCTGCTAYGTCAACAGCACCAT 30

RESULT 17
CS096374 23 bp RNA linear PAT 03-JUN-2005
LOCUS CS096374

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Db      7 ATGACCTTCACATACAGTACAC 32
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RESULT 10
AX280456      32 bp      DNA      linear      PAT 02-NOV-2001
LOCUS      Sequence 79 from Patent WO0177172.
ACCESSION      AX280456
VERSION      AX280456.1 GI:16607831
KEYWORDS
SOURCE
ORGANISM      Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS      1 Lehmann-Bruinsma, K., Liaw, C.W. and Lin, I.L.
TITLE      Non-endogenous, constitutively activated known g protein-coupled
JOURNAL      Patent: WO 0177172-A 79 18-OCT-2001;
FEATURES
source      1.32
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      1.5%; Score 26; DB 1; Length 32;
Best Local Similarity 80.8%; Pred. No. 38;
Matches 21; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1 AUGACCTTCACATACAGTACAC 26
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Db      7 ATGACCTTCACATACAGTACAC 32

RESULT 11
LOCUS      BD235751      30 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION      Strengthened functional expression of heterogenous G
ACCESSION      BD235751
VERSION      BD235751.1 GI:33045521
KEYWORDS      JP 2002523090-A/4
SOURCE      synthetic construct
ORGANISM      other sequences; artificial sequences.
REFERENCE      1 (bases 1 to 30)
AUTHORS      Pausch, M.H., Lai, M., Silverman, S., Birsan, C., Baumbauch, W.,
TITLE      Tseng, E., Kajkowski, E.M. and Ozemberger, B.A.
JOURNAL      Strengthened functional expression of heterogenous G
FEATURES      protein-coupled receptor
Patent: JP 2002523090-A 4 30-JUL-2002;
BASF AG
OS      Artificial Sequence
PN      JP 2002523090-A/4
PD      30-JUL-2002
PF      01-SEP-1999 JP 2000567691
PR      01-SEP-1998 US 60/098704
PI      MARK HENRY PAUSCH, MARGARET LAI, SANFORD SILVERMAN, CAMELIA PI
BIRSAN.
PI      WILLIAM BAUMBAUCH, EUGENE TSENG, EILEEN MARIE KAJKOWSKI, PI
BRADLEY ALTON OZEMBERGER
PC      C12N1/19, C07K14/72, C12N15/09, C12P21/02, C12Q1/02, G01N33/15, PC
G01N33/50,
PC      G01N33/566/(C12N1/19, C12R1:865), (C12P21/02, C12R1:865), C12N15/
PC      00
CC      Description of Artificial Sequence: Oligonucleotide FH Key
FT      source      1.30
/organism="Artificial Sequence".
Location/Qualifiers
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source

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source      1.30
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Query Match      1.4%; Score 25.2; DB 1; Length 30;
Best Local Similarity 70.0%; Pred. No. 41;
Matches 21; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1495 GCCUUCACUACUCCGACCCCAUACAC 1524
|||||:|||||:|||||:|||||
Db      1 GCCTTCATCATCAGTGCACCCCTACACC 30

RESULT 12
LOCUS      BD235756      30 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION      Strengthened functional expression of heterogenous G
ACCESSION      BD235756
VERSION      BD235756.1 GI:33045526
KEYWORDS      JP 2002523090-A/9.
SOURCE      synthetic construct
ORGANISM      other sequences; artificial sequences.
REFERENCE      1 (bases 1 to 30)
AUTHORS      Pausch, M.H., Lai, M., Silverman, S., Birsan, C., Baumbauch, W.,
TITLE      Tseng, E., Kajkowski, E.M. and Ozemberger, B.A.
JOURNAL      Strengthened functional expression of heterogenous G
FEATURES      protein-coupled receptor
Patent: JP 2002523090-A 9 30-JUL-2002;
BASF AG
OS      Artificial Sequence
PN      JP 2002523090-A/9
PD      30-JUL-2002
PF      01-SEP-1999 JP 2000567691
PR      01-SEP-1998 US 60/098704
PI      MARK HENRY PAUSCH, MARGARET LAI, SANFORD SILVERMAN, CAMELIA PI
BIRSAN.
PI      WILLIAM BAUMBAUCH, EUGENE TSENG, EILEEN MARIE KAJKOWSKI, PI
BRADLEY ALTON OZEMBERGER
PC      C12N1/19, C07K14/72, C12N15/09, C12P21/02, C12Q1/02, G01N33/15, PC
G01N33/50,
PC      G01N33/566/(C12N1/19, C12R1:865), (C12P21/02, C12R1:865), C12N15/
PC      00
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Location/Qualifiers
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source      1.30
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/mol_type="genomic DNA"
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Query Match      1.4%; Score 25.2; DB 1; Length 30;
Best Local Similarity 66.7%; Pred. No. 41;
Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

Qy      1498 UUCACUACUACUCCGACCCCAUACAC 1527
|||||:|||||:|||||:|||||
Db      1 TTCATCATCATCAGTGCACCCCTACACC 30

RESULT 13
LOCUS      BD235802      30 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION      Method of modifying function of heterogenous G protein-coupled
ACCESSION      BD235802
VERSION      BD235802.1 GI:33045572
KEYWORDS      JP 2002523091-A/4.
SOURCE      synthetic construct

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LOCUS	ARI09758	27 bp	DNA	linear	PAT 14-FEB-2003
DEFINITION	Sequence 182 from patent US 6114139.				
ACCESSION	ARI09758				
VERSION	ARI09758.1	GI:12826034			
KEYWORDS	.				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
1	(bases 1 to 27)				
AUTHORS	Hinuma,S., Hosoya,M., Fujii,R., Ohtaki,T., Fukusumi,S. and Ohgi,K.				
TITLE	G-protein coupled receptor protein and a DNA encoding the receptor				
JOURNAL	Patent: US 6114139-A 182 05-SEP-2000;				
FEATURES	location/Qualifiers				
source	1..27				
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	/mol_type="unassigned DNA"				
Query Match	1.5%; Score 27; DB 1; Length 27;				
Best Local Similarity	74.1%; Pred. No. 19;				
Matches	20; Conservative 7; Mismatches 0; Indels 0; Gaps 0;				
Dy	1618 AACCCCGUGUGCUAUGCUCUGGCAC 1644				
	: : : : : : : : : : : :				
Db	1 AACCCCGTGTCTATGCTGTGGAC 27				
RESULT 7	BD235753	30 bp	DNA	linear	PAT 17-JUL-2003
LOCUS	BD235753/c				
DEFINITION	Strengthened functional expression of heterogenous G				
protein-coupled receptor.					
ACCESSION	BD235753				
VERSION	BD235753.1	GI:33045523			
KEYWORDS	JP 2002523090-A/6.				
SOURCE	synthetic construct				
ORGANISM	synthetic construct				
REFERENCE	other sequences; artificial sequences.				
1	(bases 1 to 30)				
AUTHORS	Pausch,M.H., Lai,M., Silverman,S., Birsan,C., Baumbauch,W.,				
TITLE	Tseng,E., Kajkowski,E.M. and Ozenberger,B.A.				
JOURNAL	Strengthened functional expression of heterogenous G				
	protein-coupled receptor				
	Patent: JP 2002523090-A 6 30-JUL-2002;				
COMMENT	BASP AG				
OS	Artificial Sequence				
PN	JP 2002523090-A/6				
PD	30-JUL-2002				
PF	01-SEP-1999 JP 2000567691				
PR	01-SEP-1998 US 60/098704				
PI	MARK HENRY PAUSCH,MARGARET LAI,SANFORD SILVERMAN,CAMELIA PI				
	BIRSAN,				
	PI WILLIAM BAUMBAUCH,EUGENE TSENG,EILEEN MARIE KAJKOWSKI, PI				
	BRADLEY ALTON OZENBERGER				
	PC C12N1/19,C07K14/72,C12N15/09,C12P21/02,C12Q1/02,G01N33/15, PC				
	G01N33/50,				
	PC G01N33/566/(C12N1/19,C12R1:865),(C12P21/02,C12R1:865),C12N15/				
	PC 00				
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	1..30				
	Location/Qualifiers				
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	/mol_type="genomic DNA"				
	/db_xref="taxon:32630"				
Query Match	1.5%; Score 26.8; DB 1; Length 30;				
Best Local Similarity	73.3%; Pred. No. 26;				
Matches	22; Conservative 6; Mismatches 2; Indels 0; Gaps 0;				
Dy	GCCTGCATCAGCAGCCCAAC 1524				
	: : : : : : : : : : : :				

Db	30	GCCTTCATCATCAGTGAACCCCTTACAAC	1
RESULT 8			
LOCUS	BD235804/c	30 bp	DNA linear PAT 17-JUL-2003
DEFINITION	Method of modifying function of heterogenous G protein-coupled receptor.		
ACCESSION	BD235804		
VERSION	BD235804.1	GI:33045574	
KEYWORDS	JP 2002523091-A/6.		
SOURCE	synthetic construct		
ORGANISM	synthetic construct		
REFERENCE	other sequences; artificial sequences.		
AUTHORS	1 (bases 1 to 30)		
TITLE	Pausch,M.H. and Wess,J		
JOURNAL	Method of modifying function of heterogenous G protein-coupled Patent: JP 2002523091-A 6 30-JUL-2002;		
COMMENT	BASF AG		
OS	Artificial Sequence		
PN	JP 2002523091-A/6		
PD	30-JUL-2002		
PF	01-SEP-1999 JP 2000567692		
PR	01-SEP-1998 US 60/098704		
PI	MARK HENRY PAUSCH,JURGEN WESS		
PC	C12N15/09,C07K14/72,C12N1/19,C12Q1/02,G01N33/15,G01N33/50,PC		
GOIN33/566,			
CC	G01N33/68//(C12N1/19,C12R1:865,C12N15/00		
CC	Description of Artificial Sequence:oligonucleotide FH Key		
Location/Qualifiers			
FT	source 1...30		
FT	Location/Qualifiers		
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/mol_type="genomic DNA"			
/db_xref="taxon:32630"			
Query Match	1.5%;	Score 26.8;	DB 1; Length 30;
Best Local Similarity	73.3%;	Pred. No. 26;	
Matches	22;	Conservative	6; Mismatches 2; Indels 0; Gaps 0;
Cy	1495	GCCTTCATCATCAGTGAACCCCTTACAAC	1524
Db	30	GCCTTCATCATCAGTGAACCCCTTACAAC	1
RESULT 9			
LOCUS	ARS90948	32 bp	DNA linear PAT 15-DEC-2004
DEFINITION	Sequence 79 from patent US 6806054.		
ACCESSION	ARS90948		
VERSION	ARS90948.1	GI:56638757	
KEYWORDS	.		
SOURCE	Unknown.		
ORGANISM	Unknown.		
REFERENCE	Unclassified.		
AUTHORS	1 (bases 1 to 32)		
TITLE	Lehmann-Brulisma,K., Liaw,C.W. and Lin,I.-L.		
JOURNAL	Non-endogenous, constitutively activated known G protein-coupled receptors		
Patent:	US 6806054-A 79 19-OCT-2004.		
Arena Pharmaceuticals, Inc.;	San Diego, CA		
Location/Qualifiers			
1..32	/organism="unknown"		
/mol_type="genomic DNA"			
Query Match	1.5%;	Score 26;	DB 1; Length 32;
Best Local Similarity	80.8%;	Pred. No. 38;	
Matches	21;	Conservative	5; Mismatches 0; Indels 0; Gaps 0;
Cy	1	AUGACCTUGCACAUAACAGATCAAC	26

REFERENCE 1 (bases 1 to 37)
AUTHORS Lehmann-Bruinsma, K., Liaw, C.W. and Lin, I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: US 6806054-A 279 19-OCT-2004;
Arena Pharmaceuticals, Inc.; San Diego, CA
FEATURES
source 1..37
/organism="unknown"
/mol_type="genomic DNA"

Query Match 1.8%; Score 32.2; DB 1; Length 37;
Best Local Similarity 83.8%; Pred. No. 8.6;
Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1449 GGUCAGAGAGAAAGCGGCCAGACCCUCAGUGCG 1485
Db 1 GGTCAGAGAGAAAGCGAAACAGACCTCAGTGGC 37

RESULT 2
LOCUS AR591149 37 bp DNA linear PAT 15-DEC-2004
DEFINITION Sequence 280 from patent US 6806054.
ACCESSION AR591149
VERSION AR591149.1 GI:56638958
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 37)
AUTHORS Lehmann-Bruinsma, K., Liaw, C.W. and Lin, I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: US 6806054-A 280 19-OCT-2004;
Arena Pharmaceuticals, Inc.; San Diego, CA
FEATURES
source 1..37
/organism="unknown"
/mol_type="genomic DNA"

Query Match 1.8%; Score 32.2; DB 1; Length 37;
Best Local Similarity 83.8%; Pred. No. 8.6;
Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1449 GGUCAGAGAGAGAAAGCGGCCAGACCCUCAGUGCG 1485
Db 37 GGTCAGAGAGAGAAAGCGAAACAGACCTCAGTGGC 1

RESULT 3
LOCUS AX280656 37 bp DNA linear PAT 02-NOV-2001
DEFINITION Sequence 279 from Patent WO0177172.
ACCESSION AX280656
VERSION AX280656.1 GI:16608031
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 37)
AUTHORS Lehmann-Bruinsma, K., Liaw, C.W. and Lin, I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: WO 0177172-A 279 18-OCT-2001;
Arena Pharmaceuticals, Inc. (US)
FEATURES
source 1..37
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.8%; Score 32.2; DB 1; Length 37;
Best Local Similarity 83.8%; Pred. No. 8.6;
Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1449 GGUCAGAGAGAGAAAGCGGCCAGACCCUCAGUGCG 1485
Db 1 GGTCAGAGAGAGAAAGCGAAACAGACCTCAGTGGC 37

RESULT 4
LOCUS AX280657 37 bp DNA linear PAT 02-NOV-2001
DEFINITION Sequence 280 from Patent WO0177172.
ACCESSION AX280657
VERSION AX280657.1 GI:16608032
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 37)
AUTHORS Lehmann-Bruinsma, K., Liaw, C.W. and Lin, I.-L.
TITLE Non-endogenous, constitutively activated known G protein-coupled receptors
JOURNAL Patent: WO 0177172-A 280 18-OCT-2001;
Arena Pharmaceuticals, Inc. (US)
FEATURES
source 1..37
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.8%; Score 32.2; DB 1; Length 37;
Best Local Similarity 83.8%; Pred. No. 8.6;
Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1449 GGUCAGAGAGAGAAAGCGGCCAGACCCUCAGUGCG 1485
Db 37 GGTCAGAGAGAGAGAAAGCGAAACAGACCTCAGTGGC 1

RESULT 5
LOCUS AR109645 27 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 69 from patent US 6114139.
ACCESSION AR109645
VERSION AR109645.1 GI:12825921
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Hinuma, S., Hoshiyama, M., Fujii, R., Ohnaka, T., Fukusumi, S. and Ohgaki, K.
TITLE G-protein coupled receptor protein and a DNA encoding the receptor
JOURNAL Patent: US 6114139-A 69 05-SEP-2000;
FEATURES
source 1..27
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 1.5%; Score 27; DB 1; Length 27;
Best Local Similarity 77.8%; Pred. No. 19;
Matches 21; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 240 GGUGACCAUACGCGCAUCCUGGU 266
Db 1 GGTCACATCATCGGCAATCTCTGT 27

RESULT 6
LOCUS AR109758

C 399	13.8	0.8	17	1	DD186275	ACCESSION:DD186275	C 472	12.8	0.7	16	1	AR087869	ACCESSION:AR087869
C 400	13.8	0.8	17	1	DD187816	ACCESSION:DD187816	C 473	12.8	0.7	16	1	AR091339	ACCESSION:AR091339
C 401	13.8	0.8	17	1	DD190912	ACCESSION:DD190912	C 474	12.8	0.7	16	1	AR118045	ACCESSION:AR118045
C 402	13.8	0.8	17	1	DD190916	ACCESSION:DD190916	C 475	12.8	0.7	16	1	AR119026	ACCESSION:AR119026
C 403	13.8	0.8	17	1	114562	ACCESSION:114562	C 476	12.8	0.7	16	1	AR127764	ACCESSION:AR127764
C 404	13.8	0.8	17	1	AR188612	ACCESSION:AR188612	C 477	12.8	0.7	16	1	AR144931	ACCESSION:AR144931
C 405	13.8	0.8	17	1	AR190186	ACCESSION:AR190186	C 478	12.8	0.7	16	1	AR145932	ACCESSION:AR145932
C 406	13.8	0.8	17	1	AR286275	ACCESSION:AR286275	C 479	12.8	0.7	16	1	AR292955	ACCESSION:AR292955
C 407	13.8	0.8	17	1	AR286512	ACCESSION:AR286512	C 480	12.8	0.7	16	1	BD009273	ACCESSION:BD009273
C 408	13.8	0.8	17	1	AR324465	ACCESSION:AR324465	C 481	12.8	0.7	16	1	BD233018	ACCESSION:BD233018
C 409	13.8	0.8	17	1	157076	ACCESSION:157076	C 482	12.8	0.7	16	1	C0858571	ACCESSION:C0858571
C 410	13.8	0.8	17	1	AR398265	ACCESSION:AR398265	C 483	12.8	0.7	16	1	CS020466	ACCESSION:CS020466
C 411	13.8	0.8	17	1	AR398502	ACCESSION:AR398502	C 484	12.8	0.7	16	1	CS113935	ACCESSION:CS113935
C 412	13.8	0.8	17	1	AR401922	ACCESSION:AR401922	C 485	12.8	0.7	16	1	CS228123	ACCESSION:CS228123
C 413	13.8	0.8	17	1	AR434213	ACCESSION:AR434213	C 486	12.8	0.7	16	1	CS251086	ACCESSION:CS251086
C 414	13.8	0.8	17	1	AR458624	ACCESSION:AR458624	C 487	12.8	0.7	16	1	126792	ACCESSION:126792
C 415	13.8	0.8	17	1	AR482658	ACCESSION:AR482658	C 488	12.8	0.7	16	1	141165	ACCESSION:141165
C 416	13.8	0.8	17	1	AR482660	ACCESSION:AR482660	C 489	12.8	0.7	16	1	191533	ACCESSION:191533
C 417	13.8	0.8	17	1	AR597925	ACCESSION:AR597925	C 490	12.8	0.7	16	1	AR574808	ACCESSION:AR574808
C 418	13.8	0.8	17	1	AX475754	ACCESSION:AX475754	C 491	12.8	0.7	16	1	AR575038	ACCESSION:AR575038
C 419	13.8	0.8	17	1	AX531289	ACCESSION:AX531289	C 492	12.8	0.7	16	1	AR580871	ACCESSION:AR580871
C 420	13.8	0.8	17	1	AX579508	ACCESSION:AX579508	C 493	12.8	0.7	16	1	AR589528	ACCESSION:AR589528
C 421	13.8	0.8	17	1	AX579990	ACCESSION:AX579990	C 494	12.8	0.7	16	1	AR077572	ACCESSION:AR077572
C 422	13.8	0.8	17	1	AX616050	ACCESSION:AX616050	C 495	12.8	0.7	16	1	AX07572	ACCESSION:AX07572
C 423	13.8	0.8	17	1	AX616051	ACCESSION:AX616051	C 496	12.8	0.7	16	1	AX132918	ACCESSION:AX132918
C 424	13.8	0.8	17	1	AX616052	ACCESSION:AX616052	C 497	12.8	0.7	16	1	AX133148	ACCESSION:AX133148
C 425	13.8	0.8	17	1	AX648760	ACCESSION:AX648760	C 498	12.4	0.7	15	1	AR041461	ACCESSION:AR041461
C 426	13.8	0.8	17	1	AX691839	ACCESSION:AX691839	C 499	12.4	0.7	15	1	AR056367	ACCESSION:AR056367
C 427	13.8	0.8	17	1	AX691840	ACCESSION:AX691840	C 500	12.4	0.7	15	1	AR071406	ACCESSION:AR071406
C 428	13.8	0.8	17	1	AX694246	ACCESSION:AX694246	C 501	12.4	0.7	15	1	AR092455	ACCESSION:AR092455
C 429	13.8	0.8	17	1	AX723814	ACCESSION:AX723814	C 502	12.4	0.7	15	1	AR092464	ACCESSION:AR092464
C 430	13.8	0.8	17	1	AX727076	ACCESSION:AX727076	C 503	12.4	0.7	15	1	AR114031	ACCESSION:AR114031
C 431	13.8	0.8	17	1	AX727544	ACCESSION:AX727544	C 504	12.4	0.7	15	1	AR114125	ACCESSION:AR114125
C 432	13.8	0.8	17	1	AX729874	ACCESSION:AX729874	C 505	12.4	0.7	15	1	AR133631	ACCESSION:AR133631
C 433	13.8	0.8	17	1	AX735559	ACCESSION:AX735559	C 506	12.4	0.7	15	1	AR133905	ACCESSION:AR133905
C 434	13.8	0.8	17	1	AX736610	ACCESSION:AX736610	C 507	12.4	0.7	15	1	AX937516	ACCESSION:AX937516
C 435	13.8	0.8	17	1	AX737723	ACCESSION:AX737723	C 508	12.4	0.7	15	1	BD074150	ACCESSION:BD074150
C 436	13.8	0.8	17	1	AX753822	ACCESSION:AX753822	C 509	12.4	0.7	15	1	BD208892	ACCESSION:BD208892
C 437	13.8	0.8	17	1	AX758163	ACCESSION:AX758163	C 510	12.4	0.7	15	1	BD208893	ACCESSION:BD208893
C 438	13.8	0.8	17	1	AX760563	ACCESSION:AX760563	C 511	12.4	0.7	15	1	BD208983	ACCESSION:BD208983
C 439	13.8	0.8	17	1	AX761179	ACCESSION:AX761179	C 512	12.4	0.7	15	1	CS002487	ACCESSION:CS002487
C 440	13.8	0.8	17	1	AX762401	ACCESSION:AX762401	C 513	12.4	0.7	15	1	CS002720	ACCESSION:CS002720
C 441	13.8	0.8	17	1	HS13BE11L	ACCESSION:HS13BE11L	C 514	12.4	0.7	15	1	CS005322	ACCESSION:CS005322
C 442	13.4	0.8	15	1	AR131712	ACCESSION:AR131712	C 515	12.4	0.7	15	1	CS005996	ACCESSION:CS005996
C 443	13.4	0.8	15	1	BD208668	ACCESSION:BD208668	C 516	12.4	0.7	15	1	CS104321	ACCESSION:CS104321
C 444	13.4	0.8	16	1	BD104552	ACCESSION:BD104552	C 517	12.4	0.7	15	1	AR179938	ACCESSION:AR179938
C 445	13.4	0.8	16	1	AR241772	ACCESSION:AR241772	C 518	12.4	0.7	15	1	AR179958	ACCESSION:AR179958
C 446	13.4	0.8	16	1	AX756484	ACCESSION:AX756484	C 519	12.4	0.7	15	1	AR180430	ACCESSION:AR180430
C 447	13.4	0.8	16	1	AR591148	ACCESSION:AR591148	C 520	12.4	0.7	15	1	AR180530	ACCESSION:AR180530
C 448	13.2	0.7	37	1	AR591149	ACCESSION:AR591149	C 521	12.4	0.7	15	1	AR226465	ACCESSION:AR226465
C 449	13.2	0.7	37	1	AX280656	ACCESSION:AX280656	C 522	12.4	0.7	15	1	AR226474	ACCESSION:AR226474
C 450	13.2	0.7	37	1	AX280657	ACCESSION:AX280657	C 523	12.4	0.7	15	1	161824	ACCESSION:161824
C 451	13	0.7	15	1	AR041251	ACCESSION:AR041251	C 524	12.4	0.7	15	1	AR708719	ACCESSION:AR708719
C 452	13	0.7	15	1	AR041763	ACCESSION:AR041763	C 525	12.4	0.7	15	1	AX633376	ACCESSION:AX633376
C 453	13	0.7	15	1	AR056190	ACCESSION:AR056190	C 526	12.4	0.7	15	1	AX633609	ACCESSION:AX633609
C 454	13	0.7	15	1	AR056412	ACCESSION:AR056412	C 527	12.4	0.7	15	1	AX636211	ACCESSION:AX636211
C 455	13	0.7	15	1	AR113948	ACCESSION:AR113948	C 528	12.4	0.7	15	1	AX636885	ACCESSION:AX636885
C 456	13	0.7	15	1	AR114170	ACCESSION:AR114170	C 529	12.4	0.7	19	1	CS096202	ACCESSION:CS096202
C 457	13	0.7	15	1	CS002360	ACCESSION:CS002360	ALIGNMENTS						
C 458	13	0.7	15	1	CS002429	ACCESSION:CS002429							
C 459	13	0.7	15	1	CS005845	ACCESSION:CS005845							
C 460	13	0.7	15	1	CS006362	ACCESSION:CS006362							
C 461	13	0.7	15	1	AR285725	ACCESSION:AR285725							
C 462	13	0.7	15	1	AR397716	ACCESSION:AR397716							
C 463	13	0.7	15	1	AX633249	ACCESSION:AX633249							
C 464	13	0.7	15	1	AX633318	ACCESSION:AX633318							
C 465	13	0.7	15	1	AX636734	ACCESSION:AX636734							
C 466	13	0.7	15	1	AX637251	ACCESSION:AX637251							
C 467	13	0.7	16	1	AR435971	ACCESSION:AR435971							
C 468	12.8	0.7	16	1	AR001331	ACCESSION:AR001331							
C 469	12.8	0.7	16	1	AR037511	ACCESSION:AR037511							
C 470	12.8	0.7	16	1	AR054083	ACCESSION:AR054083							
C 471	12.8	0.7	16	1	AR062791	ACCESSION:AR062791							

ALIGNMENTS

RESULT 1
LOCUS AR591148 37 bp DNA
DEFINITION Sequence 279 from patent US 6806054.
ACCESSION AR591148
VERSION AR591148.1 GI:56638957
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

C 253	19	1.1	21	1	CS096407	ACCESSION:CS096407
C 254	19	1.1	21	1	CS096408	ACCESSION:CS096408
C 255	19	1.1	21	1	CS096409	ACCESSION:CS096409
C 256	19	1.1	21	1	CS096410	ACCESSION:CS096410
C 257	19	1.1	21	1	CS096411	ACCESSION:CS096411
C 258	19	1.1	21	1	CS096412	ACCESSION:CS096412
C 259	19	1.1	21	1	CS096413	ACCESSION:CS096413
C 260	19	1.1	21	1	CS096414	ACCESSION:CS096414
C 261	19	1.1	21	1	CS096415	ACCESSION:CS096415
C 262	19	1.1	21	1	CS096416	ACCESSION:CS096416
C 263	19	1.1	21	1	CS096417	ACCESSION:CS096417
C 264	19	1.1	21	1	CS096418	ACCESSION:CS096418
C 265	19	1.1	21	1	CS096419	ACCESSION:CS096419
C 266	19	1.1	21	1	CS096420	ACCESSION:CS096420
C 267	19	1.1	21	1	CS096421	ACCESSION:CS096421
C 268	19	1.1	21	1	CS096422	ACCESSION:CS096422
C 269	19	1.1	21	1	CS096423	ACCESSION:CS096423
C 270	19	1.1	21	1	CS096424	ACCESSION:CS096424
C 271	19	1.1	21	1	CS096425	ACCESSION:CS096425
C 272	19	1.1	21	1	CS096426	ACCESSION:CS096426
C 273	19	1.1	21	1	CS096427	ACCESSION:CS096427
C 274	19	1.1	21	1	CS096428	ACCESSION:CS096428
C 275	19	1.1	21	1	CS096429	ACCESSION:CS096429
C 276	19	1.1	21	1	CS096430	ACCESSION:CS096430
C 277	19	1.1	21	1	CS096431	ACCESSION:CS096431
C 278	19	1.1	21	1	CS096432	ACCESSION:CS096432
C 279	19	1.1	21	1	CS096433	ACCESSION:CS096433
C 280	19	1.1	21	1	CS096434	ACCESSION:CS096434
C 281	19	1.1	21	1	CS096435	ACCESSION:CS096435
C 282	19	1.1	21	1	CS096436	ACCESSION:CS096436
C 283	19	1.1	21	1	CS096437	ACCESSION:CS096437
C 284	19	1.1	21	1	CS096438	ACCESSION:CS096438
C 285	19	1.1	21	1	CS096439	ACCESSION:CS096439
C 286	19	1.1	21	1	CS096440	ACCESSION:CS096440
C 287	19	1.1	21	1	CS096441	ACCESSION:CS096441
C 288	19	1.1	21	1	CS096442	ACCESSION:CS096442
C 289	19	1.1	21	1	CS096443	ACCESSION:CS096443
C 290	19	1.1	21	1	CS096444	ACCESSION:CS096444
C 291	19	1.1	21	1	CS096445	ACCESSION:CS096445
C 292	19	1.1	21	1	CS096446	ACCESSION:CS096446
C 293	19	1.1	21	1	CS096447	ACCESSION:CS096447
C 294	19	1.1	21	1	CS096448	ACCESSION:CS096448
C 295	19	1.1	21	1	CS096449	ACCESSION:CS096449
C 296	19	1.1	21	1	CS096450	ACCESSION:CS096450
C 297	19	1.1	21	1	CS096451	ACCESSION:CS096451
C 298	19	1.1	21	1	CS096452	ACCESSION:CS096452
C 299	19	1.1	21	1	CS096453	ACCESSION:CS096453
C 300	19	1.1	21	1	CS096454	ACCESSION:CS096454
C 301	19	1.1	21	1	CS096455	ACCESSION:CS096455
C 302	19	1.1	21	1	CS096456	ACCESSION:CS096456
C 303	19	1.1	21	1	CS096457	ACCESSION:CS096457
C 304	19	1.1	21	1	CS096458	ACCESSION:CS096458
C 305	19	1.1	21	1	CS096459	ACCESSION:CS096459
C 306	19	1.1	21	1	CS096460	ACCESSION:CS096460
C 307	19	1.1	21	1	CS096461	ACCESSION:CS096461
C 308	19	1.1	21	1	CS096462	ACCESSION:CS096462
C 309	19	1.1	21	1	CS096463	ACCESSION:CS096463
C 310	19	1.1	21	1	CS096464	ACCESSION:CS096464
C 311	19	1.1	21	1	CS096465	ACCESSION:CS096465
C 312	19	1.1	21	1	CS096466	ACCESSION:CS096466
C 313	19	1.1	21	1	CS096467	ACCESSION:CS096467
C 314	19	1.1	21	1	CS096468	ACCESSION:CS096468
C 315	19	1.1	21	1	CS096469	ACCESSION:CS096469
C 316	19	1.1	21	1	CS096470	ACCESSION:CS096470
C 317	19	1.1	21	1	CS096471	ACCESSION:CS096471
C 318	19	1.1	21	1	CS096472	ACCESSION:CS096472
C 319	19	1.1	21	1	CS096473	ACCESSION:CS096473
C 320	19	1.1	21	1	CS096474	ACCESSION:CS096474
C 321	19	1.1	21	1	CS096475	ACCESSION:CS096475
C 322	19	1.1	21	1	CS096476	ACCESSION:CS096476
C 323	19	1.1	21	1	CS096477	ACCESSION:CS096477
C 324	19	1.1	21	1	CS096487	ACCESSION:CS096487
C 325	19	1.1	21	1	CS096488	ACCESSION:CS096488
C 326	19	1.1	21	1	CS096489	ACCESSION:CS096489
C 327	19	1.1	21	1	CS096490	ACCESSION:CS096490
C 328	19	1.1	21	1	CS096491	ACCESSION:CS096491
C 329	19	1.1	21	1	CS096492	ACCESSION:CS096492
C 330	19	1.1	21	1	CS096493	ACCESSION:CS096493
C 331	19	1.1	21	1	CS096494	ACCESSION:CS096494
C 332	19	1.1	21	1	CS096495	ACCESSION:CS096495
C 333	18	1.0	20	1	AX511437	ACCESSION:AX511437
C 334	18	1.0	20	1	AX298730	ACCESSION:AX298730
C 335	17	1.0	22	1	AX675784	ACCESSION:AX675784
C 336	17	1.0	17	1	BD241158	ACCESSION:BD241158
C 337	17	1.0	17	1	AR482659	ACCESSION:AR482659
C 338	16	0.9	20	1	BD230533	ACCESSION:BD230533
C 339	16	0.9	20	1	BD330609	ACCESSION:BD330609
C 340	16	0.9	20	1	AR337048	ACCESSION:AR337048
C 341	16	0.9	21	1	CO897421	ACCESSION:CO897421
C 342	16	0.9	21	1	CO897858	ACCESSION:CO897858
C 343	16	0.9	21	1	AR670046	ACCESSION:AR670046
C 344	16	0.9	21	1	AX663594	ACCESSION:AX663594
C 345	16	0.9	20	1	AR428075	ACCESSION:AR428075
C 346	16	0.9	20	1	AR337049	ACCESSION:AR337049
C 347	15	0.9	19	1	CS174435	ACCESSION:CS174435
C 348	15	0.9	19	1	CS191043	ACCESSION:CS191043
C 349	15	0.9	19	1	CS193807	ACCESSION:CS193807
C 350	15	0.9	19	1	AX278625	ACCESSION:AX278625
C 351	15	0.9	17	1	BD259402	ACCESSION:BD259402
C 352	15	0.9	18	1	A56834	ACCESSION:A56834
C 353	15	0.9	18	1	A56852	ACCESSION:A56852
C 354	15	0.9	18	1	A56871	ACCESSION:A56871
C 355	15	0.9	18	1	A56881	ACCESSION:A56881
C 356	15	0.9	18	1	A97983	ACCESSION:A97983
C 357	15	0.9	18	1	AR096229	ACCESSION:AR096229
C 358	15	0.9	18	1	AR096248	ACCESSION:AR096248
C 359	15	0.9	18	1	AR118332	ACCESSION:AR118332
C 360	15	0.9	18	1	AR118342	ACCESSION:AR118342
C 361	15	0.9	18	1	CS185388	ACCESSION:CS185388
C 362	15	0.9	18	1	CS185395	ACCESSION:CS185395
C 363	15	0.9	18	1	DD184859	ACCESSION:DD184859
C 364	15	0.9	18	1	DD186481	ACCESSION:DD186481
C 365	15	0.9	18	1	AX718623	ACCESSION:AX718623
C 366	15	0.9	19	1	AR295199	ACCESSION:AR295199
C 367	15	0.9	19	1	AR295723	ACCESSION:AR295723
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C 374	14	0.8	18	1	AR100838	ACCESSION:AR100838
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C 179	19	1.1	19	1	CS096329	ACCESSION:CS096329	C 252	19	1.1	21	1	CS096406	ACCESSION:CS096406

GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on: June 30, 2006, 13:47:12 ; Search time 10 Seconds
(without alignments)
3.528 Million cell updates/sec

Title: US-10-798-090A-305

Perfect score: 1773
Sequence: 1 augaccuagcacaauaacag.....caccgcagcagcguag 1773

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 523 seqs, 9949 residues

Total number of hits satisfying chosen parameters: 1046

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 529 summaries

Database : rge.subdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	32.2	1.8	37 1 AR591149	ACCESSION:AR591149
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4	32.2	1.8	37 1 AX280657	ACCESSION:AX280657
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6	27	1.5	27 1 AR109758	ACCESSION:AR109758
7	26.8	1.5	30 1 BD235753	ACCESSION:BD235753
8	26.8	1.5	30 1 BD235804	ACCESSION:BD235804
9	26	1.5	32 1 AR590948	ACCESSION:AR590948
10	26	1.5	32 1 AR280456	ACCESSION:AR280456
11	25.2	1.4	30 1 BD235751	ACCESSION:BD235751
12	25.2	1.4	30 1 BD235756	ACCESSION:BD235756
13	25.2	1.4	30 1 BD235802	ACCESSION:BD235802
14	25.2	1.4	30 1 BD235807	ACCESSION:BD235807
15	24.8	1.4	31 1 AX249066	ACCESSION:AX249066
16	24.8	1.4	31 1 AX249249	ACCESSION:AX249249
17	23	1.3	23 1 CS096374	ACCESSION:CS096374
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25	20.6	1.2	21 1 AX154389	ACCESSION:AX154389
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Qy	815	GGACGAGGCGAG	828
Db	1	GGACGAGGUGAG	14

Search completed: June 30, 2006, 13:52:28
Job time : 23 secs

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 68.8%; Pred. No. 5.9e+02;
 Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1132 CUCACUCCACCAAGU 1147
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RESULT 909
 AEF56675/C
 ID AEF56675 standard; DNA; 16 BP.
 AC AEF56675;
 XX
 DT 23-MAR-2006 (first entry)
 XX
 DE Human genomic DNA PCR primer #1066.
 XX
 KM Diagnosis; breast disease; hyperproliferation; PCR; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200608128-A2.
 XX
 PD 26-JAN-2006.
 XX
 PF 18-JUL-2005; 2005WO-EP007830.
 XX
 PR 18-JUL-2004; 2004EP-00016926.
 XX
 PA (EPIC-) EPIDENOMICS AG.
 XX
 PI Lesche R, Faasbender A, Juenemann K, Foekens J, Martens JWM,
 XX
 DR WPI; 2006-125479/13.
 XX
 PT Detecting or detecting and distinguishing between or among breast cell
 PT proliferative disorders in a subject by determining the expression of a
 PT panel of genes or sequences.
 XX
 PS Disclosure; SEQ ID NO 1656; 321bp; English.
 XX

The invention relates to a method of detecting or detecting and
 distinguishing between or among breast cell proliferative disorders in a
 subject comprising determining the expression of at least one gene or
 sequence given in the specification, and determining from the expression
 the presence, absence or subclass of a breast cell proliferative
 disorder. The invention also relates to a treated nucleic acid used to
 convert at least one unmethylated cytosine base of the genomic DNA
 sequence to uracil or another base that is detectably dissimilar to
 cytosine in terms of hybridization, and an oligomer that is complementary
 to, or hybridizes under moderately stringent conditions to a treated
 genomic DNA sequence or a set of oligomers comprising at least two
 oligonucleotides. The method is useful for detecting or detecting and
 distinguishing between or among breast cell proliferative disorders in a
 subject. This sequence represents a PCR primer used to amplify human
 genomic DNA used in the scope of the invention. Note: The sequence data
 for this patent did not form part of the printed specification, but was
 obtained in electronic format directly from WIPO at
 ftp.wipo.int/pub/published_pct_sequences.

Sequence 16 BP; 3 A; 0 C; 7 G; 6 T; 0 U; 0 Other;
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 68.8%; Pred. No. 5.9e+02;
 Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1132 CUCACUCCACCAAGU 1147
 16 CTAACCTCCACCACT 1

RESULT 910
 ADW27878
 ID ADW27878 standard; RNA; 19 BP.
 XX
 AC ADW27878;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #175.

gene expression; antiaesthetic; antiallergic; antiinflammatory; CNS-Gen.;
 respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM neotropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease;
 KM incontinence; ss.

Synthetic.

US2005014172-A1.

20-JAN-2005.

11-MAR-2004; 2004US-00798090.

20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JUN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003WO-US005346.
 PR 30-APR-2003; 2003US-00427160.
 PR 23-MAY-2003; 2003US-00444853.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.

(RICH/) RICHARDS I.
 (MCSW/) MCSWIGGEN J.

Richards I, Mcswiggen J;

WPI; 2005-090672/10.

Novel chemically synthesized double stranded short interfering nucleic
 acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 RNA through RNA interference, useful for treating asthma.

Disclosure; SEQ ID NO 175; 84bp; English.

The invention relates to a chemically synthesized double stranded short
 interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 where each strand of (I) has 19-23 nucleotides, and does not require the
 presence of nucleotides having a 2-hydroxy group for mediating RNA
 interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.

Sequence 19 BP; 5 A; 3 C; 9 G; 0 T; 2 U; 0 Other;

Query Match 0.7%; Score 12.4; DB 1; Length 19;
 Best Local Similarity 92.9%; Pred. No. 8.6e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 907
 AEA52090/c
 ID AEA52090 standard; DNA; 16 BP.
 XX
 AC AEA52090;
 XX
 DT 25-AUG-2005 (first entry)
 XX
 DE Prostate cancer gene PCR primer SEQ ID NO 693.
 XX
 KW gene expression; cell proliferation; hyperproliferation; cytostatic;
 KM neoplasm; PCR; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2005054517-A2.
 XX
 PD 16-JUN-2005.
 XX
 PF 01-DEC-2004; 2004WO-US040289.
 XX
 PR 01-DEC-2003; 2003EP-00090414.
 XX
 PR 10-FEB-2004; 2004EP-00090040.
 XX
 PR 10-MAY-2004; 2004EP-00090187.
 XX
 PR 21-JUL-2004; 2004EP-00090292.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Day KJ, Cottrill S, Distler J, Morotti A, Yamamura S, Dekker S;
 PI Ocamp Y, Devos T;
 XX
 DR WPI; 2005-425434/43.
 XX
 PT Detecting and/or differentiating prostate cell proliferative disorders in
 PT a subject by contacting genomic with reagent(s) that distinguishes
 PT between methylated and non-methylated CpG dinucleotides in target nucleic
 PT acids.
 XX
 PS Example 3; SEQ ID NO 693; 164pp; English.
 XX
 CC The invention describes a method of detecting and/or differentiating
 CC between prostate cell proliferative disorders in a subject comprising
 CC contacting genomic DNA isolated from a biological sample with at least
 CC one reagent, or series of reagents that distinguishes between methylated
 CC and non-methylated CpG dinucleotides within one or a combination of
 CC target nucleic acids e.g. HISTONE H4. Also described are: a treated
 CC nucleic acid derived from SEQ ID NO: 1-59, 1017-1028, 1116, 1171, where
 CC the treatment converts at least one unmethylated cytosine base of the
 CC genomic DNA sequence to uracil or another base that is detectable
 CC dissimilar to cytosine in terms of hybridization; a nucleic acid
 CC comprising at least 16 contiguous nucleotides of a treated genomic DNA
 CC sequence selected from SEQ ID NO: 60-295, 1029-1076, 1117-1120, 1172-1175
 CC and sequences complementary to them; an oligomer comprising a sequence of
 CC at least 9 contiguous nucleotides that is complementary to, or hybridizes
 CC under moderately stringent or stringent conditions to a treated genomic
 CC DNA sequence above; a set of oligomers comprising at least two
 CC oligonucleotides as above; and a kit useful for detecting and/or
 CC distinguishing between and/or among prostate cell proliferative disorder of a
 CC subject comprising at least one of a bisulfite reagent, or a methylation-
 CC sensitive restriction enzyme, and at least one nucleic acid molecule or
 CC peptide nucleic acid molecule comprising a contiguous sequence at least 9
 CC nucleotides that is complementary to, or hybridizes under moderately
 CC stringent or stringent conditions to a sequence selected from SEQ ID NO:
 CC 60-295, 1029-1076, 1117-1120, 1172-1175 and their complements. The
 CC method, nucleic acid, oligomer, set of oligonucleotide, and kit are
 CC useful for detecting and/or differentiating between or among cell
 CC proliferative disorders. This sequence represents a primer used in the
 CC isolation of gene encoding a prostate cell proliferation associated
 CC protein.
 XX
 SQ Sequence 16 BP; 3 A; 0 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 68.8%; Pred. No. 5.9e+02;
 Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 Qy 1558 UGCANACCCAAACCU 1573
 Db 16 TCCATACCCAAACAT 1
 XX
 AC AEF09334/c
 ID AEF09334 standard; DNA; 16 BP.
 XX
 AC AEF09334;
 XX
 DT 09-MAR-2006 (first entry)
 XX
 DE Human PRESS Tpg probe SEQ ID NO:630.
 XX
 KW DNA methylation; epigenetic modification; cancer; cytostatic;
 KM tumor marker; Breast tumor; prognosis; ss; probe.
 XX
 OS Homo sapiens.
 XX
 OS Synthetic.
 XX
 PN WO2005123945-A2.
 XX
 PD 29-DEC-2005.
 XX
 PF 21-JUN-2005; 2005WO-BP006713.
 XX
 PR 21-JUN-2004; 2004EP-00090244.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 PI Lesche R, Fassbender A, Juenemann K, Foekens J, Martens JWM;
 PI Maier S, Nimmrich I, Koenig T, Wang-Gohrke S;
 XX
 DR WPI; 2006-067522/07.
 XX
 PT Classifying breast cancers according to estrogen receptor status by
 PT obtaining a genomic DNA sample from a subject and determining the
 PT methylation status of CpG positions within a target nucleic acid.
 XX
 PS Example 1; SEQ ID NO 630; 412pp; English.
 XX
 CC The invention relates to classifying breast cancers according to estrogen
 CC receptor status comprising obtaining a genomic DNA sample from a subject,
 CC determining the methylation status of one or more CpG positions comprised
 CC within at least one target nucleic acid (comprising the gene IGFBP7
 CC and/or its regulatory regions) and determining the estrogen receptor
 CC status of the subject. The method also comprises obtaining a genomic DNA
 CC sample from a subject, determining the methylation status of one or more
 CC CpG positions comprised within at least one target nucleic acid
 CC consisting of IGFBP7, S100A2, ARH1, CSRG2, DAPK1, SFN, PTGS2, IGF1, SEQ
 CC ID NO: 12, ARL7, PLAU, MRF, S100A7, PABP3, SEQ ID NO: 19, SCG3A1,
 CC SRP1NB5, GSTP1, SEQ ID NO: 24, LIM DOMAIN KINASE 1, I16, SEQ ID NO: 27,
 CC EYA4, SEQ ID NO: 29, SIRT2, CCND2, HOXA5, APAF1, MGC10561,
 CC PRDM2, PROSTRAGLANDIN E2 RECEPTOR, SNOG, NR2E1, SFN, PRESS8 (appearing as
 CC AEF08705-AEF08745) and/or their regulatory regions by contacting the
 CC target nucleic acid with one or more agents (e.g. bisulfite) that convert
 CC cytosine bases that are unmethylated at the 5'-position to a base that is
 CC detectably dissimilar to cytosine in terms of hybridization properties,
 CC and determining the estrogen receptor status of the subject. The method
 CC is useful for classifying breast cancers according to estrogen receptor
 CC status, nodal status or progesterone receptor status. The present
 CC sequence is a probe that detects a region of a target DNA that containing
 CC an unmethylated CpG dinucleotide (i.e. the sequence has been converted to
 CC Tpg).
 XX
 SQ Sequence 16 BP; 3 A; 0 C; 7 G; 6 T; 0 U; 0 Other;

FT FT /tag= c
FT /mod_base= OTHER
FT /note= "Phosphorothioate linkages"
FT modified_base
FT 1. .4
FT /tag= a
FT /mod_base= OTHER
FT /note= "Beta-D-oxy-LNAs (locked nucleic acid). All beta-D
FT -oxy-LNA cytosines are 5-methylcytosine"
FT modified_base
FT 13. .16
FT /tag= d
FT /mod_base= OTHER
FT /note= "Beta-D-oxy-LNAs. All beta-D-oxy-LNA cytosines are
FT 5-methylcytosine"
XX US2005014712-A1.
XX
XX
XX 20-JAN-2005.
XX
XX 10-FEB-2004; 2004US-00776934.
XX
XX 10-FEB-2003; 2003US-0446372P.
XX 19-NOV-2003; 2003US-0523591P.
XX
XX (HANS/) HANSEN B.
XX (THRU/) THRU C A.
XX (WEST/) WESTERGAARD M.
XX (PETE/) PETERSEN K D.
XX (WISS/) WISENBACH M.
XX
XX Hansen B, Thru CA, Westergaard M, Petersen KD, Wisenbach M;
XX WPI; 2005-100663/11.
XX
XX New oligomeric compound for the modulation of survivin, useful for
XX treating e.g. cancers, atherosclerosis, psoriasis, diabetic retinopathy,
XX rheumatoid arthritis, asthma, warts, or allergic dermatitis.
XX
XX Example 10; SEQ ID NO 272; 264pp; English.
XX
XX The invention relates to antisense oligonucleotides consisting of 8-50
XX nucleotides and/or nucleotide analogs which inhibit expression of human
XX survivin, an inhibitor of apoptosis which is also essential for cell
XX division and angiogenesis. The antisense oligonucleotides comprise a
XX subsequence of 8 or more nucleotides or nucleotide analogs, wherein the
XX subsequence is located within a sequence selected from ADM09444-ADM09586.
XX The oligonucleotides preferably contain one or more (preferably 6-10)
XX nucleotide analogs, especially a locked nucleic acid (LNA), and also
XX a phosphorothioate group or a boranophosphate group. The invention also
XX relates to a conjugate comprising a survivin antisense oligonucleotide of
XX the invention and one or more non-nucleotide or non-polynucleotide
XX moieties covalently attached to the oligonucleotide, and a pharmaceutical
XX composition comprising a survivin antisense oligonucleotide or conjugate
XX of the invention, optionally further comprising a chemotherapeutic agent.
XX The survivin antisense oligonucleotides, and conjugates and compositions
XX containing them, are useful in the treatment of cancers such as
XX carcinomas (e.g., malignant melanoma, basal cell carcinoma, ovarian
XX carcinoma, breast carcinoma, non-small cell lung cancer, renal cell
XX carcinoma, bladder carcinoma, recurrent superficial bladder cancer,
XX stomach carcinoma, prostatic carcinoma, pancreatic carcinoma, lung
XX carcinoma, cervical carcinoma, cervical dysplasia, laryngeal
XX papillomatosis, colon carcinoma, colorectal carcinoma and carcinoma
XX tumors); sarcomas (e.g., osteosarcoma, Ewing's sarcoma, chondrosarcoma,
XX malignant fibrous histiocytoma, fibrosarcoma, and Kaposi's sarcoma); or
XX gliomas. The survivin antisense oligonucleotides are also useful in the
XX treatment of conditions such as atherosclerosis, psoriasis, diabetic
XX retinopathy, rheumatoid arthritis, asthma, warts, and allergic
XX dermatitis. They may additionally be used for inhibiting cellular
XX proliferation, for modulating apoptosis and for treating a disease
XX related to abnormal angiogenesis. The survivin antisense oligonucleotides
XX of the invention are shorter than prior art survivin antisense
XX oligonucleotides (16-mers compared to 20-25-mers), therefore having
XX increased specificity and affinity for survivin mRNA, and also have

CC higher biostability and cell permeability. The present sequence
CC represents an antisense oligonucleotide targeted to the human survivin
CC cDNA target sequence shown in ADM09443 used in an example of the
CC invention.
XX
XX Sequence 16 BP; 1 A; 3 C; 2 G; 10 T; 0 U; 0 Other;
SQ
Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 31.2%; Pred. No. 5.9e+02;
Matches 5; Conservative 9; Mismatches 2; Indels 0; Gaps 0;
QY 714 UGCUUUUUAUAGCCU 729
Db 1 TGCTTTTAAAGTTCCT 16
RESULT 906
ADX85197
ID ADX85197 standard; DNA; 16 BP.
XX
XX
XX ADX85197;
AC
XX 05-MAY-2005 (first entry)
DT
XX
XX Mouse gadd45 DNA fragment, seqid:41.
DE
XX
XX Cell death; apoptosis; degeneration; cancer; cytostatic; neoplasm;
KW immunotherapy; chemotherapy; gene therapy; gadd45; ds.
XX
XX Mus musculus.
OS
XX
XX EP1506784-A1.
PN
XX
XX 16-FEB-2005.
PD
XX
XX 26-JUL-2004; 2004EP-00017667.
PF
XX
XX 25-JUL-2003; 2003US-00626905.
PR
XX 02-DEC-2003; 2003US-0526231P.
XX
XX (UYCH-) UNIV CHICAGO.
XX
XX Franzoso G, Desmaele B, Zazzeroni F, Papa S, Bubici C;
PI
XX
XX WPI; 2005-154742/17.
XX
XX Method for modulating pathways leading to programmed cell death for
XX treating cancer, by obtaining peptide having specific amino acid sequence
XX and regulating JNK pathway using peptide or composition developed using
XX peptide sequence.
XX
XX Example 14; SEQ ID NO 41; 110pp; English.
XX
XX The invention relates to methods and compositions for modulating pathways
XX leading to programmed cell death or apoptosis. The method involves
XX selecting a target within the c-Jun-N-terminal kinase (JNK) pathway and
XX interfering the target by an agent that either upregulates or
XX downregulates the JNK pathway. The JNK modulator is effective in treating
XX degenerative disease and cancer. The method and compositions of the
XX invention are useful in immunotherapy, cancer chemotherapy and in gene
XX therapy. The present sequence is the mouse gadd45 DNA fragment. Gadd45 is
XX a modulator of JNK pathway.
XX
XX Sequence 16 BP; 3 A; 7 C; 5 G; 1 T; 0 U; 0 Other;
SQ
Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.9e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 956 GCUGAACCAGCUC 971
Db 1 GCTGGAAACCCCGCGC 16

XX 07-APR-2005 (first entry)
DT Human survivin antisense oligonucleotide 33D, SEQ ID NO:275.
XX
XX Antisense therapy; apoptosis stimulation; neoplasm; carcinoma; melanoma;
XX basal cell carcinoma; ovary tumor; breast tumor;
XX non-small-cell lung cancer; renal cell carcinoma; bladder tumor;
XX stomach tumor; prostatic cancer; pancreas tumor; lung tumor;
XX uterine cervix tumor; cervical dysplasia; colon tumor; colorectal tumor;
XX sarcoma; osteosarcoma; Kaposi's sarcoma; anti-HIV; glioma; cytostatic;
XX endocrine disease; gynecology and obstetrics; genitourinary disease;
XX respiratory disease; musculoskeletal disease; dermatological disease;
XX proliferative disorder; atherosclerosis; antiarteriosclerotic;
XX cardiovascular disease; metabolic disorder; psoriasis; antipsoriatic;
XX immune disorder; diabetic retinopathy; antidiabetic; ophthalmological;
XX cardiovascular disease; ocular disease; rheumatoid arthritis;
XX antiarthritic; antirheumatic; inflammation; asthma; antiasthmatic;
XX skin allergy; antiallergic; antiinflammatory; dermatological;
XX verruca vulgaris; virucide; cell proliferation; apoptosis modulation;
XX angiogenesis disorder; survivin; phosphothioate;
XX antisense oligonucleotide; ss.
XX
XX Homo sapiens.
XX
XX Key location/Qualifiers
XX misc_binding 1..16
XX /tag= a
XX /bound_moiety= "Bases 288-273 of human survivin cDNA (SEQ
XX ID NO:1)"
XX modified_base 1..16
XX /tag= b
XX /mod_base= OTHER
XX /note= "Phosphorothioate linkages"
XX
XX US2005014712-A1.
XX
XX 20-JAN-2005.
XX
XX 10-FEB-2004; 2004US-00776934.
XX
XX 10-FEB-2003; 2003US-0446372P.
XX 19-NOV-2003; 2003US-0523591P.
XX
XX (HANS/) HANSEN B.
XX (THRU/) THRU C A.
XX (WEST/) WESTERGAARD M.
XX (PETE/) PETERSEN K D.
XX (WISS/) WISSENBACH M.
XX
XX Hansen B, Thru CA, Westergaard M, Petersen KD, Wissenbach M;
XX
XX WPI, 2005-100663/11.
XX
XX New oligomeric compound for the modulation of survivin, useful for
XX treating e.g. cancers, atherosclerosis, psoriasis, diabetic retinopathy,
XX rheumatoid arthritis, asthma, warts, or allergic dermatitis.
XX
XX Example 10; SEQ ID NO 275; 264pp; English.
XX
XX The invention relates to antisense oligonucleotides consisting of 8-50
XX nucleotides and/or nucleotide analogs which inhibit expression of human
XX survivin, an inhibitor of apoptosis which is also essential for cell
XX division and angiogenesis. The antisense oligonucleotides comprise a
XX subsequence of 8 or more nucleotides or nucleotide analogs, wherein the
XX subsequence is located within a sequence selected from ADW09444-ADW09586.
XX The oligonucleotides preferably contain one or more (preferably 6-10)
XX nucleotide analogs, especially a locked nucleic acid (LNA), and also
XX preferably contain a linkage group selected from a phosphate group, a
XX phosphorothioate group or a boranophosphate group. The invention also
XX relates to a conjugate comprising a survivin antisense oligonucleotide of
XX the invention and one or more non-nucleotide or non-polynucleotide
XX moieties covalently attached to the oligonucleotide, and a pharmaceutical

CC composition comprising a survivin antisense oligonucleotide or conjugate
CC of the invention, optionally further comprising a chemotherapeutic agent.
CC The survivin antisense oligonucleotides, and conjugates and compositions
CC containing them, are useful in the treatment of cancers such as
CC carcinomas (e.g., malignant melanoma, basal cell carcinoma, ovarian
CC carcinoma, breast carcinoma, non-small cell lung cancer, renal cell
CC carcinoma, bladder carcinoma, recurrent superficial bladder cancer,
CC stomach carcinoma, prostatic carcinoma, pancreatic carcinoma, lung
CC carcinoma, cervical carcinoma, cervical dysplasia, laryngeal
CC papillomatosis, colon carcinoma, colorectal carcinoma and carcinoi
CC tumors); sarcomas (e.g., osteosarcoma, Ewing's sarcoma, chondrosarcoma,
CC malignant fibrous histiocytoma, fibrosarcoma, and Kaposi's sarcoma); or
CC gliomas. The survivin antisense oligonucleotides are also useful in the
CC treatment of conditions such as atherosclerosis, psoriasis, diabetic
CC retinopathy, rheumatoid arthritis, asthma, warts, and allergic
CC dermatitis. They may additionally be used for inhibiting cellular
CC proliferation, for modulating apoptosis and for treating a disease
CC related to abnormal angiogenesis. The survivin antisense oligonucleotides
CC of the invention are shorter than prior art survivin antisense
CC oligonucleotides (16-mers compared to 20-25-mers), therefore having
CC increased specificity and affinity for survivin mRNA, and also have
CC higher biostability and cell permeability. The present sequence
CC represents an antisense oligonucleotide targeted to the human survivin
CC cDNA target sequence shown in ADW09443 used in an example of the
CC invention.
XX
XX SEQ Sequence 16 BP; 1 A; 3 C; 2 G; 10 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 12.8; DB 1; Length 16;
XX Best Local Similarity 31.2%; Pred. No. 5.9e+02;
XX Matches 5; Conservative 9; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 714 UGCUUUUNAUAGCCU 729
XX :||:||||:|:|:
XX DB 1 TCGCTTTTATGTTCC 16
XX
XX RESULT 905
XX ID ADW09714 standard; DNA; 16 BP.
XX AC ADW09714;
XX XX
XX DT 07-APR-2005 (first entry)
XX
XX Human survivin antisense oligonucleotide 33A, SEQ ID NO:272.
XX
XX Antisense therapy; apoptosis stimulation; neoplasm; carcinoma; melanoma;
XX basal cell carcinoma; ovary tumor; breast tumor;
XX non-small-cell lung cancer; renal cell carcinoma; bladder tumor;
XX stomach tumor; prostatic cancer; pancreas tumor; lung tumor;
XX uterine cervix tumor; cervical dysplasia; colon tumor; colorectal tumor;
XX sarcoma; osteosarcoma; Kaposi's sarcoma; anti-HIV; glioma; cytostatic;
XX endocrine disease; gynecology and obstetrics; genitourinary disease;
XX respiratory disease; musculoskeletal disease; dermatological disease;
XX proliferative disorder; atherosclerosis; antiarteriosclerotic;
XX cardiovascular disease; metabolic disorder; psoriasis; antipsoriatic;
XX immune disorder; diabetic retinopathy; antidiabetic; ophthalmological;
XX cardiovascular disease; ocular disease; rheumatoid arthritis;
XX antiarthritic; antirheumatic; inflammation; asthma; antiasthmatic;
XX skin allergy; antiallergic; antiinflammatory; dermatological;
XX verruca vulgaris; virucide; cell proliferation; apoptosis modulation;
XX angiogenesis disorder; survivin; phosphothioate; cytosine methylation;
XX antisense oligonucleotide; ss.
XX
XX Homo sapiens.
XX
XX Key location/Qualifiers
XX misc_binding 1..16
XX /tag= b
XX /bound_moiety= "Bases 288-273 of human survivin cDNA (SEQ
XX ID NO:1)"
XX modified_base 1..16

CC higher biostability and cell permeability. The present sequence
 CC represents an antisense oligonucleotide targeted to the human survivin
 CC cDNA target sequence shown in ADM09443 used in an example of the
 CC invention.

CC
 CC Sequence 16 BP; 1 A; 3 C; 2 G; 10 T; 0 U; 0 Other;

CC
 CC Query Match 0.7%; Score 12.8; DB 1; Length 16;
 CC Best Local Similarity 31.2%; Pred. No. 5.9e+02;
 CC Matches 5; Conservative 9; Mismatches 2; Indels 0; Gaps 0;

CC
 CC 714 UGCUUUUAUAGCCU 729
 CC 1 TCGTTTATGTTCC 16

RESULT 902
 ADM09475
 ID ADM09475 strand; DNA; 16 BP.
 XX
 AC ADM09475;
 DT 07-APR-2005 (first entry)
 XX
 DE Human survivin antisense oligonucleotide, SEQ ID NO:33.
 XX
 KM Antisense therapy; apoptosis stimulation; neoplasm; carcinoma; melanoma;
 KM basal cell carcinoma; ovary tumor; breast tumor;
 KM non-small-cell lung cancer; renal cell carcinoma; bladder tumor;
 KM stomach tumor; prostatic cancer; pancreas cancer; lung tumor;
 KM uterine cervix tumor; cervical dysplasia; colon tumor; colorectal tumor;
 KM sarcoma; osteosarcoma; Kaposi's sarcoma; anti-HIV; glioma; cytostatic;
 KM endocrine disease; gynecology and obstetrics; genitourinary disease;
 KM respiratory disease; musculoskeletal disease; dermatological disease;
 KM proliferative disease; atherosclerosis; antiarteriosclerotic;
 KM cardiovascular disease; metabolic disorder; psoriasis; antipsoriatic;
 KM immune disorder; diabetic retinopathy; antidiabetic; ophthalmological;
 KM cardiovascular disease; ocular disease; rheumatoid arthritis;
 KM antiarthritic; antirheumatic; inflammation; asthma; antiasthmatic;
 KM skin allergy; antiallergic; antiinflammatory; dermatological;
 KM verruca vulgaris; virucide; cell proliferation; apoptosis modulation;
 KM angiogenesis disorder; survivin; phosphorothioate; cytosine methylation;
 KM antisense oligonucleotide; ss.

OS Homo sapiens.
 XX
 XX
 FH Key Location/Qualifiers
 FT 1..16
 FT misc_binding
 FT /bound_moiety= "Bases 288-273 of human survivin cDNA (SEQ
 FT ID NO:1)"
 FT 1..5
 FT modified_base
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "Optionally phosphorothioate linkages when
 FT nucleotides 1-4 are beta-D-oxy-LNAs. When nucleotides 1-4
 FT are unmodified, the internucleotide linkages are
 FT phosphorothioate"
 FT 1..4
 FT modified_base
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "Optionally beta-D-oxy-LNAs (locked nucleic acid).
 FT All beta-D-oxy-LNA cytosines are 5-methylcytosine"
 FT 5..13
 FT modified_base
 FT /tag= d
 FT /mod_base= OTHER
 FT /note= "Phosphorothioate linkages"
 FT 13..15
 FT modified_base
 FT /tag= e
 FT /mod_base= OTHER
 FT /note= "Optionally beta-D-oxy-LNAs. All beta-D-oxy-LNA
 FT cytosines are 5-methylcytosine. Optionally
 FT phosphorothioate linkages when bases 13-15 are beta-D-oxy

FT
 FT -LNAs. When nucleotides 13-15 are unmodified, the
 FT internucleotide linkages are phosphorothioate"
 FT 15..16
 FT /tag= f
 FT /mod_base= OTHER
 FT /note= "Optionally phosphorothioate linkage when
 FT nucleotide 16 is beta-D-oxy-LNA. This linkage is
 FT phosphorothioate when nucleotide 16 is unmodified"
 FT 16
 FT modified_base
 FT /tag= g
 FT /mod_base= OTHER
 FT /note= "Optionally beta-D-oxy-LNA. When this nucleotide
 FT is unmodified, the linkage between nucleotides 15 and 16
 FT is phosphorothioate"

PN US2005014712-A1.
 XX
 XX 20-JAN-2005.
 PD
 PD 10-FEB-2004; 2004US-00776934.
 PF 10-FEB-2003; 2003US-0446372P.
 XX 19-NOV-2003; 2003US-0523591P.
 PR
 PR (HANS/) HANSEN B.
 PA (THRU/) THRU C. A.
 PA (WEST/) WESTERGARD M.
 PA (PETE/) PETERSEN K. D.
 PA (WISS/) WISENBACH M.
 XX
 XX Hansen B, Thru CA, Westergard M, Petersen KD, Wisenbach M;
 PI WPI; 2005-100663/11.
 DR
 XX New oligomeric compound for the modulation of survivin, useful for
 PT treating e.g. cancers, atherosclerosis, psoriasis, diabetic retinopathy,
 PT rheumatoid arthritis, asthma, warts, or allergic dermatitis.
 PT
 XX Claim 1; SEQ ID NO 33; 264pp; English.
 PS
 XX The invention relates to antisense oligonucleotides consisting of 8-50
 CC nucleotides and/or nucleotide analogs which inhibit expression of human
 CC survivin, an inhibitor of apoptosis which is also essential for cell
 CC division and angiogenesis. The antisense oligonucleotides comprise a
 CC subsequence of 8 or more nucleotides or nucleotide analogs, wherein the
 CC subsequence is located within a sequence selected from ADM09444-ADM09586.
 CC The oligonucleotides preferably contain one or more (preferably 6-10)
 CC nucleotide analogs, especially a locked nucleic acid (LNA), and also
 CC preferably contain a linkage group selected from a phosphate group, a
 CC phosphorothioate group or a boranophosphate group. The invention also
 CC relates to a conjugate comprising a survivin antisense oligonucleotide
 CC and the invention and one or more non-nucleotide or non-polynucleotide
 CC moieties covalently attached to the oligonucleotide; and a pharmaceutical
 CC composition comprising a survivin antisense oligonucleotide or conjugate
 CC of the invention, optionally further comprising a chemotherapeutic agent.
 CC The survivin antisense oligonucleotides and conjugates and compositions
 CC containing them, are useful in the treatment of cancers such as
 CC carcinomas (e.g., malignant melanoma, basal cell carcinoma, ovarian
 CC carcinoma, breast carcinoma, non-small cell lung cancer, renal cell
 CC carcinoma, bladder carcinoma, recurrent superficial bladder cancer,
 CC stomach carcinoma, prostatic carcinoma, pancreatic carcinoma, lung
 CC carcinoma, cervical carcinoma, cervical dysplasia, laryngeal
 CC papillomatosis, colon carcinoma, colorectal carcinoma and carcinoma
 CC tumors); sarcomas (e.g., osteosarcoma, Ewing's sarcoma, chondrosarcoma,
 CC malignant fibrous histiocytoma, fibrosarcoma, and Kaposi's sarcoma); or
 CC gliomas. The survivin antisense oligonucleotides are also useful in the
 CC treatment of conditions such as atherosclerosis, psoriasis, diabetic
 CC retinopathy, rheumatoid arthritis, asthma, warts, and allergic
 CC dermatitis. They may additionally be used for inhibiting cellular
 CC proliferation, for modulating apoptosis and for treating a disease
 CC related to abnormal angiogenesis. The survivin antisense oligonucleotides
 CC of the invention are shorter than prior art survivin antisense
 CC oligonucleotides (16-mers compared to 20-25-mers), therefore having

CC putative regulatory region.
 XX
 SQ Sequence 16 BP; 2 A; 2 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 50.0%; Pred. No. 5.9e+02;
 Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
 QY 1574 UUNUGAUCUGGCGUA 1589
 Db 1 TTTCGATCTCGGGGTA 16
 RESULT 899
 AAL56944
 ID AAL56944 standard; DNA; 16 BP.
 XX
 AC AAL56944;
 XX
 DT 11-MAR-2004 (first entry)
 XX
 DE Human hypoxia-inducible factor-1 alpha antisense oligo #40.
 XX
 KW HIF-1alpha; hypoxia-inducible factor-1 alpha; human; antisense; cancer;
 KW pre-eclampsia; cytosstatic; gynaecological; antiinflammatory; nootropic;
 KW neuroprotective; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2003085110-A2.
 XX
 PD 16-OCT-2003.
 XX
 PF 04-APR-2003; 2003WO-IB001758.
 XX
 PR 05-APR-2002; 2002US-0370126P.
 XX
 PA (CURE-) CUREON AS.
 FI Thru CA, Hog AM, Kristjansen PBG;
 DR WPI; 2003-812728/76.
 XX
 PT New oligonucleotide that modulates hypoxia-inducible factor-1alpha,
 PT useful for treating e.g. cancer or Alzheimer's disease.
 PS Claim 1; Page 42; 0pp; English.
 XX
 CC The present invention relates to compounds capable of modulating hypoxia-
 CC inducible factor-1alpha (HIF1a). The compounds are used to treat patients
 CC with, or at risk of developing, cancer (e.g. of breast, prostate,
 CC pancreas, lung), pre-eclampsia, inflammatory bowel disease or Alzheimer's
 CC disease, for modulating angiogenesis, proliferation of erythrocytes and
 CC other cells, iron, glucose and energy metabolism, pH regulation, tissue
 CC invasion, apoptosis, multiple drug resistance, cellular stress responses,
 CC and matrix metabolism, especially apoptosis where modulation is
 CC sensitivity to an apoptotic stimulus, particularly a chemotherapeutic
 CC agent and for inhibiting proliferation of cells (especially cancer cells)
 CC in vitro. The present sequence is an antisense oligonucleotide against
 CC HIF1alpha identified in the exemplification of the invention
 CC
 SQ Sequence 16 BP; 6 A; 3 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 62.5%; Pred. No. 5.9e+02;
 Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 QY 1016 ACAATGATGCGUCGUC 1031
 Db 1 AAAATGATGCTACTGTC 16
 RESULT 900

ADR69964
 ID ADR69964 standard; DNA; 16 BP.
 XX
 AC ADR69964;
 XX
 DT 04-NOV-2004 (first entry)
 XX
 DE Human survivin gene modulatory oligonucleotide #12.
 XX
 KW ss; antiangiogenic; cyostatic; antiarteriosclerotic; antipsoriatic;
 KW antidiabetic; ophthalmological; antiarthritic; antirheumatic;
 KW antiasthmatic; anti-allergic; antiinflammatory; dermatological; anti-HIV;
 KW vincristine; survivin antagonist; apoptosis inhibitor;
 KW cellular proliferation inhibitor; survivin; gene expression;
 KW abnormal angiogenesis; chemotherapeutic agent; busulfan; myleran;
 KW carboplatin; parapatrin; Taxol; doxorubicin; adriamycin; atherosclerosis;
 KW psoriasis; diabetic retinopathy; rheumatoid arthritis; asthma; warts;
 KW allergic dermatitis; cancer; tumour; sarcoma; glioma; carcinoma;
 KW melanoma; osteosarcoma; Ewing's sarcoma; chondrosarcoma;
 KW malignant fibrous histiocytoma; fibrosarcoma; Kaposi's sarcoma;
 KW Paclitaxel; Docetaxel.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1..16
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "OTHER = phosphorothioate internucleotide
 FT linkages, all locked nucleic acid (LNA) residues are 5'-
 FT methyl cytosine residues"
 FT 1..4
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "OTHER = beta-D-oxy-locked nucleic acid but
 FT optionally DNA nucleotides, optionally phosphate
 FT internucleotide linkages"
 FT 13..16
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "OTHER = beta-D-oxy-locked nucleic acid but
 FT optionally DNA nucleotides, optionally phosphate
 FT internucleotide linkages"
 XX
 PN WO2004069991-A2.
 XX
 PD 19-AUG-2004.
 XX
 PF 10-FEB-2004; 2004WO-DK000096.
 XX
 PR 10-FEB-2003; 2003DK-00000183.
 XX
 PR 18-NOV-2003; 2003DK-00001708.
 XX
 PA (SANT-) SANTARIS PHARMA AS.
 PI Hansen B, Thru CA, Petersen KD, Westergaard M, Wissenbach M;
 DR WPI; 2004-625494/60.
 XX
 PT New locked nucleic acid containing oligomeric compound capable of
 PT modulating survivin expression, useful for treating cancer such as breast
 PT carcinoma, lung carcinoma, etc.
 PS Claim 1; SEQ ID NO 33; 122pp; English.
 XX
 CC The invention relates to an oligomeric compound (I) capable of modulating
 CC survivin expression, having 8-50 nucleotides and/or nucleotide analogues,
 CC where the compound comprises a subsequence of at least 8 nucleotides or
 CC nucleotide analogues, where the subsequence is located within a sequence
 CC chosen from one of 143 sequences given in the specification. (I) is
 CC useful for treating a mammal suffering from or susceptible from a disease
 CC caused by abnormal angiogenesis, by administering (I) containing one or

CC against the proteins may be utilised for immunophenotyping of cell lines
 CC and biological samples. The present sequence represents or contains the
 CC region surrounding a single-nucleotide polymorphism in one of the genes
 CC encoding one of the proteins listed above

SQ Sequence 16 BP; 9 A; 1 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 37.5%; Pred. No. 5.9e+02;
 Matches 6; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

OY 583 AUCUCCUUUGCCUU 598

Db 16 ATTCCCTTGTCTTT 1

RESULT 897
 ACC59079
 ID ACC59079 standard; DNA; 16 BP.

ACCS9079;

04-JUL-2003 (first entry)

Mouse gadd45beta core binding site kb-3 #2.

c-Jun-N-terminal kinase pathway; JNK pathway; cytoskeletal; mouse;
 programmed cell death; TNFalpha; Fas; TRAIL; genotoxic agent; cancer;
 apoptosis; Gadd45beta; JNK2; chronic inflammatory disease; Gadd45;
 autoimmune condition; kb-3; ds.

Mus musculus.

WO2003028659-A2.

10-APR-2003.

02-OCT-2002; 2002WO-US031548.

02-OCT-2001; 2001US-0326492P.

12-OCT-2001; 2001US-0328811P.

(UYGH-) UNIV CHICAGO.

Franzoso G, De Smaele E, Zazzeroni F, Papa S;

WPI; 2003-430155/40.

Modulating pathways leading to programmed cell death, by selecting a
 target within Jun-N-terminal kinase pathway and interfering with the
 target using agent that up or down regulates the JNK pathway.

Disclosure; Page 131; 131pp; English.

The invention relates to a novel method for modulating pathways leading
 to programmed cell death, comprising selecting a target within the c-Jun-
 N-terminal kinase (JNK) pathway, and interfering with the target using
 an agent that either up regulates or down regulates the JNK pathway. The
 method of the invention has cytostatic activity. A method of the
 CC invention is useful for modulating pathways leading to programmed cell
 CC death induced by TNFalpha, Fas, TRAIL, genotoxic agent such as
 CC demorubicin or cisplatinum. Another method of the invention is useful
 CC for screening and identifying an agent, preferably peptides, peptide
 CC mimetics, peptide-like molecules, mutant proteins, CDNs, antisense
 CC oligonucleotides or constructs, lipids, carbohydrates or synthetic or
 CC natural chemical compounds, that modulate JNK pathway in vitro. A method
 CC of the invention may also be useful for treating cancer, and for
 CC preventing apoptosis. Compounds that are capable of interfering with the
 CC ability of Gadd45beta to associate with JNK2 are useful for treating
 CC human diseases such as chronic inflammatory, and autoimmune conditions
 CC and certain types of cancer. The present sequence is used in the
 CC exemplification of the invention

SQ Sequence 16 BP; 3 A; 7 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 5.9e+02;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 956 GCUGAAGAACCCAGCUC 971

Db 1 GCTGAAACCCCGCGC 16

RESULT 898
 ADE13992
 ID ADE13992 standard; DNA; 16 BP.

ADE13992;

29-JAN-2004 (first entry)

Optineurin promoter motif, repeat element or regulatory region #101.

Human; optineurin; ds; ophthalmological; single nucleotide polymorphism;
 SNF; glaucoma; progressive ocular hypertensive disorder;

glaucoma related disorder; motif; repeat element; regulatory region.

Homo sapiens.

US2003190617-A1.

09-OCT-2003.

06-MAR-2002; 2002US-00091281.

06-MAR-2002; 2002US-00091281.

(SIEB/) SI E.

(RAYM/) RAYMOND V.

(MORI/) MORISSETTE J.

Raymond V, Morissette J, Si E;

WPI; 2003-864168/80.

New nucleic acid sequences of the optineurin gene are useful to detect
 polymorphisms particularly single nucleotide polymorphisms in the
 PT optineurin promoter to diagnose, prognosis and treat glaucoma and related
 PT disorders.

Claim 11; SEQ ID NO 103; 159pp; English.

The invention relates to an isolated nucleic acid (N1) comprising at
 least 20 but not more than 1500 consecutive nucleotides of the optineurin
 CC promoter appearing as ADE13990. Also included are the optineurin promoter
 CC operably linked to a heterologous nucleic acid, a nucleic acid capable of
 CC detecting a single nucleotide polymorphism (SNP) in the optineurin
 CC promoter, a host cell comprising the promoter operably linked to a
 CC heterologous sequence, diagnosing or prognosing glaucoma in a sample
 CC obtained from a cell or bodily fluid (comprising detecting a polymorphism
 CC in a promoter region of the optineurin gene, associated with a glaucoma
 CC phenotype), detecting a SNP sequence variation in a sample containing
 CC DNA, detecting the presence of an optineurin promoter sequence variation
 CC in a sample containing DNA, determining the presence or increased
 CC susceptibility to glaucoma or to a progressive ocular hypertensive
 CC disorder resulting in loss of visual field in a patient (or the severity
 CC or progression of glaucoma in a patient, comprising providing
 CC amplification reaction primers that direct amplification of a selected
 CC nucleic acid region containing the variation within the optineurin
 CC promoter and amplifying the DNA) and detecting a polymorphism (comprising
 CC obtaining a sample containing human genomic DNA, providing a nucleic acid
 CC capable of detecting a SNP located within an optineurin promoter, and
 CC detecting the polymorphism). The invention is used to diagnose and
 CC prognose glaucoma and also to treat glaucoma related disorders. The
 CC present sequence is an optineurin promoter motif, repeat element or

KM blocker probe.
XX
OS Human papillomavirus.
XX
PN WO200196608-A1.
XX
PD 20-DEC-2001.
XX
PF 15-JUN-2001; 2001WO-US019353.
XX
PR 15-JUN-2000; 2000US-00594839.
XX
PA (DIGE-) DIGENE CORP.
XX
PI Anthony J, Lorincz A, Williams I, Troy J, Tang Y;
XX
DR WPI; 2002-130748/17.
XX
PT Detecting a target nucleic acid, for identifying microorganisms,
XX
PT diagnosing infections or detecting genetic abnormalities, comprises
XX
PT producing and detecting double-stranded hybrids between probes and the
XX
PT target nucleic acid.
XX
PS Claim 53; Page 24; 128pp; English.
XX
CC The invention relates to detecting a target nucleic acid comprising (a)
XX
CC hybridising a single-stranded or partially single-stranded target nucleic
XX
CC acid to a capture sequence probe and a signal sequence probe to form
XX
CC double-stranded hybrids between the probes and the target nucleic acid,
XX
CC where the capture sequence probe and the signal sequence probe are
XX
CC capable of hybridising to non-overlapping regions within the target
XX
CC nucleic acid and not hybridising to each other, (b) adding a blocker
XX
CC probe to the hybridisation reaction, where the blocker probe hybridises
XX
CC to excess non-hybridised capture sequence probes, (c) binding the hybrid
XX
CC to a solid phase to form a bound hybrid, and (d) detecting the bound
XX
CC hybrid. The method is used to detecting a target nucleic acid. The method
XX
CC is useful for identifying and classifying microorganisms, diagnosing
XX
CC infectious diseases, detecting and characterising genetic abnormalities,
XX
CC identifying genetic changes associated with cancer, studying genetic
XX
CC susceptibility to disease, and measuring response to various types of
XX
CC treatment. The method is also useful for detecting the presence of
XX
CC nucleic acid in test samples. The method is not only rapid and sensitive,
XX
CC but is also highly specific and capable of discriminating highly
XX
CC homologous nucleic acid target sequences. Blocker probes comprising
XX
CC oligonucleotides complementary to the capture sequence probes are used in
XX
CC the method to eliminate excess capture sequence probe, thus reducing the
XX
CC background signal in detection and increasing specificity of the assay.
XX
CC The present sequence is a blocker probe derived from HSV-1, HSV-2, HPV or
XX
CC HBV sequences
XX
SQ Sequence 16 BP; 4 A; 2 C; 5 G; 5 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 12.8; DB 1; Length 16;
XX
Best Local Similarity 62.5%; Pred. No. 5.9e+02;
XX
Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
XX
QY 1254 CAGUUUUCGAAAAGC 1269
XX
DB ||::::|||
XX
16 CACTTTCGAAAAGC 1
XX
RESULT 896
XX
ABSS5965/C
XX
ID ABSS5965 standard; DNA; 16 BP.
XX
AC ABSS5965;
XX
DT 05-NOV-2002 (first entry)
XX
DE Human DNA representing a single nucleotide polymorphism #115.
XX
KM Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; SNP; BDKRB1;
XX
KM tachykinin receptor B1; TACR1; CI esterase inhibitor; C1NH; Kallikrein 1;
XX

KM KKL1; bradykinin receptor B2; BDKRB2; gene therapy;
XX
KM angiotensin converting enzyme 2; ACE2; protease inhibitor 4; P14;
XX
KM polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma;
XX
KM cardiovascular disease; angina pectoris; hypertension; heart failure;
XX
KM myocardial infarction; ventricular hypertrophy; vascular disease;
XX
KM aneurysm; embolism; thrombosis; coronary artery disease; angioedema;
XX
KM arteriosclerosis; atherosclerosis; hypersensitivity; sepsis;
XX
KM autoimmune disease; inflammatory arthritis; cancer; wound;
XX
KM viral infection; bacterial infection; fungal infection; COPD;
XX
KM Chronic obstructive pulmonary disease; enterocolitis;
XX
KM single-nucleotide polymorphism.
XX
OS Homo sapiens.
XX
PN WO200261131-A2.
XX
PD 08-AUG-2002.
XX
PF 03-DEC-2001; 2001WO-US047235.
XX
PR 04-DEC-2000; 2000US-0251015P.
XX
PR 22-JAN-2001; 2001US-0263678P.
XX
PR 02-MAR-2001; 2001US-0273037P.
XX
PA (BRIM) BRISTOL-MYERS SQUIBB CO.
XX
PA (TSUC/) TSUCHIHASHI Z.
XX
PA (HUII/) HUI L.
XX
PI Tsuchihashi Z, Hui L, Zerba KE, Ma-Edmonds M, Perrone MH;
XX
PI Swanson BN, Powell JR;
XX
DR WPI; 2002-619265/66.
XX
PT New isolated nucleic acid with at least one polymorphic position, useful
XX
PT for detecting, diagnosing and treating disorders such as angioedema,
XX
PT cancer, viral, bacterial or fungal infection, cardiovascular and
XX
PT autoimmune diseases.
XX
PS Disclosure; Page 664; 977pp; English.
XX
XX The invention relates to an isolated nucleic acid from a human gene
XX
XX encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDKRB1),
XX
XX tachykinin receptor B1 (TACR1), CI esterase inhibitor (C1NH), kallikrein
XX
XX 1 (KLK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme
XX
XX 2 (ACE2) or protease inhibitor 4 (P14), comprising at least one
XX
XX polymorphic position. Also included are (1) a probe that hybridises to a
XX
XX nucleotide polymorphisms comprising additional 5' and 3' flanking genomic
XX
XX sequence; (2) analysing (M1) at least one nucleic acid sample comprising
XX
XX obtaining the sample from one or more individuals and determining the
XX
XX nucleic acid sequence at one or more polymorphic positions in a gene
XX
XX encoding a protein selected from the group above; (3) constructing (M2)
XX
XX haplotypes using the genes comprising grouping at least two nucleic acids
XX
XX ; (4) identifying (M3) an individual at risk of developing a disorder
XX
XX upon administration of an ACE inhibitor and/or vasopeptidase inhibitor
XX
XX using the polymorphic data; (5) a library of nucleic acids, each of which
XX
XX comprises one or more polymorphic positions within a gene encoding a
XX
XX human protein selected from the group above; and (6) genotyping (M4) an
XX
XX individual comprising obtaining a nucleic acid sample, determining the
XX
XX nucleotide present in at least one polymorphic position, and comparing at
XX
XX least one position with a known data set. The genes, (M1, M2, M3 and M4)
XX
XX and compositions are useful for detecting, diagnosing, treating,
XX
XX preventing various disorders such as angioedema and diseases which
XX
XX involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's
XX
XX disease, trachoma, and cardiovascular diseases like angina pectoris,
XX
XX hypertension, heart failure, myocardial infarction, ventricular
XX
XX hypertrophy, vascular diseases, aneurysm, embolism, thrombosis, coronary
XX
XX artery disease, arteriosclerosis and/or atherosclerosis, and
XX
XX hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory
XX
XX arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic
XX
XX obstructive pulmonary disease (COPD) and enterocolitis (many other
XX
XX diseases and disorders are listed in the specification). The
XX
XX polynucleotides are also useful for chromosome identification. Antibodies

QY 1465 GGCGCCAGACCCUCA 1480
DB 16 GCTGGCCAGACCTCA 1

RESULT 891
AAD04709/c
ID AAD04709 standard; DNA; 16 BP.
XX AAD04709;
AC AAD04709;
XX
XX 04-JUL-2001 (first entry)
XX
DE Human MTS2 cDNA amplifying primer, BIF.
XX
XX Human; multiple tumour suppressor; MTS2; cytostatic; somatic mutation;
KW germ line mutation; gene therapy; melanoma; leukaemia; astrocytoma; CLL;
KW glioblastoma; lymphoma; glioma; Hodgkin's lymphoma; cancer; rectum;
KW pancreas; breast; thyroid; ovary; uterus; testis; kidney; stomach;
KW PCR primer; ss.
XX
XX Homo sapiens.
OS
XX
XX US6218146-B1.
PN
XX
XX 17-APR-2001.
PD
XX
XX 22-JUL-1998; 98US-00120131.
PF
XX
XX 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
XX
XX 18-MAR-1994; 94US-00215087.
PR 18-MAR-1994; 94US-00215087.
XX
XX 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
XX
XX 17-MAR-1995; 95WO-US003316.
PR 07-JUN-1995; 95US-00486047.
XX
XX (MYRI-) MYRIAD GENETICS INC.
PA
XX
XX Kamb A;
PI
XX
XX WPI; 2001-289831/30.
DR
XX
XX Novel multiple tumor suppressor proteins useful for diagnosis and
PT prognosis of human cancer and for screening drugs for cancer treatment.
XX
XX Example 13; Col 52; 71pp; English.
PS
XX
XX The invention relates to somatic and germ line mutations in the multiple
CC tumour suppressor (MTS) gene in human cancer. The invention also relates
CC to therapy of human cancer which have a mutation in the MTS gene,
CC including gene therapy, protein replacement therapy, and protein
CC mimetics. The MTS sequences are useful for diagnosing predisposition to
CC human cancer or for diagnosing and prognosing human cancers such as
CC melanoma, leukaemia, astrocytoma, glioblastoma, lymphoma, glioma,
CC Hodgkin's lymphoma, CLL and cancers of pancreas, breast, thyroid, ovary,
CC uterus, testis, kidney, stomach and rectum. They are also used for
CC screening drugs for cancer treatment. The present sequence is primer, BIF
CC used for amplifying human MTS2 cDNA sequence
XX
SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.9e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GGCGCCAGACCCUCA 1480
DB 16 GCTGGCCAGACCTCA 1

RESULT 892

AAC83088/c
ID AAC83088 standard; DNA; 16 BP.
XX
XX AAC83088;
AC AAC83088;
XX
XX 23-FEB-2001 (first entry)
DT
XX
XX Primer BIF used to amplify MTS2 DNA.
DE
XX
XX MTS; Multiple Tumour Suppressor; cancer; antibody; ss.
KW
XX
XX Homo sapiens.
OS
XX
XX US6140473-A.
PN
XX
XX 31-OCT-2000.
PD
XX
XX 22-JUL-1998; 98US-00120128.
PF
XX
XX 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
XX
XX 18-MAR-1994; 94US-00215087.
PR 18-MAR-1994; 94US-00215087.
XX
XX 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
XX
XX 17-MAR-1995; 95WO-US003316.
PR 07-JUN-1995; 95US-00486047.
XX
XX (MYRI-) MYRIAD GENETICS INC.
PA
XX
XX Kamb A;
PI
XX
XX WPI; 2001-014867/02.
DR
XX
XX New multiple tumor suppressor 2-specific antibodies useful for detecting
PT differences in the absence of the peptides or mutant gene products, or
XX for screening tissues.
XX
XX Example 13; Col 52; 71pp; English.
PS
XX
XX The present invention relates to an antibody or its fragment that
CC specifically binds to a human multiple tumour suppressor (MTS). The
CC invention is useful for detecting differences in the absence of MTS
CC peptides, to screen a tissue or to detect mutant MTS gene products. The
CC antibodies will immunoprecipitate MTS proteins from solution as well as
CC react with MTS protein on Western or immunoblots of polyacrylamide gels
XX
XX Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.9e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GGCGCCAGACCCUCA 1480
DB 16 GCTGGCCAGACCTCA 1

RESULT 893
AAH61712
ID AAH61712 standard; DNA; 16 BP.
XX
XX AAH61712;
AC AAH61712;
XX
XX 10-SEP-2001 (first entry)
DT
XX
XX Cyclin B1 hairpin/hammerhead ribozyme recognition site SEQ ID NO:4136.
DE
XX
XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
KW recognition site; target; ribozyme binding site; eye disease; vulnery;
KW proliferative disease; psoriasis; diabetic retinopathy;
KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;
KW antiproliferative; dermatological; antiseborrheic; antidiabetic; virucide;

PI Moribe T, Kaneshige T;
 XX WPI; 2000-400097/34.
 DR
 XX
 PT Simple, rapid and accurate method for distinguishing HLA class I allele
 CC type with possibility of mechanization and automation, applicable in
 CC judging donor-recipient compatibility during organ transplant and disease
 PT diagnosis.
 XX
 PS Claim 8; Page 53; 83pp; Japanese.
 XX
 CC The present invention describes a method for distinguishing a human
 CC leukocyte antigen (HLA) class I antigen or allele by a combination of
 CC polymerase chain reaction (PCR) using a primer pair whereby all HLA-A, -B
 CC or -C alleles can be amplified or using reverse hybridisation analysis
 CC comprising a DNA probe covalently bonded to microtitre plate wells which
 CC are hybridisable specifically with the base sequence of at least one
 CC specific HLA-A, -B or -C allele. The method is applicable in gene typing,
 CC judging donor-recipient compatibility during organ transplant and
 CC correlation analysis for diagnosis of various diseases. The method is
 CC simple, rapid and accurate, with possibility of mechanisation and
 CC automation, without the problems encountered by using the prior-art
 CC techniques. AAA65943 to AAA67072 represent oligonucleotide probes and PCR
 CC primers for use in the method of the present invention
 XX
 SQ Sequence 16 BP; 3 A; 2 C; 7 G; 4 T; 0 U; 0 Other;
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 75.0%; Pred. No. 5.9e+02;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 QY 915 GAGGAGUAGGCGCG 930
 Db 1 GAGGATGATGCTGC 16
 Db
 RESULT 889
 AAF58188/c
 ID AAF58188 standard; DNA; 16 BP.
 XX
 AC AAF58188;
 XX
 DT 23-APR-2001 (first entry)
 XX
 DE Primer #19.
 XX
 KW Human; multiple tumour suppressor; MTS; cancer; gene therapy; ss.
 XX
 OS Homo sapiens.
 XX
 PN US6180776-B1.
 XX
 PD 30-JAN-2001.
 XX
 PF 22-JUL-1998; 98US-00120129.
 XX
 PR 18-MAR-1994; 94US-00214582.
 PR 18-MAR-1994; 94US-00215086.
 PR 18-MAR-1994; 94US-00215087.
 PR 01-JUN-1994; 94US-00251938.
 PR 17-MAR-1995; 95WO-US003316.
 PR 07-JUN-1995; 95US-00486047.
 XX
 PA (MYRI-) MYRIAD GENETICS INC.
 XX
 PI Kamb A;
 XX
 DR WPI; 2001-158668/16.
 XX
 PT Novel multiple tumor suppressor gene useful for diagnosing, prognosing
 PT and treating cancers, such as melanoma, leukemia, glioblastoma and
 PT Hodgkin's lymphoma.
 XX

PS Example 13; Col 51; 71pp; English.
 XX
 CC The present invention relates to human multiple tumor suppressor-2 (MTS2)
 CC gene. The invention is useful for diagnosing, prognosing and treating
 CC cancers. It is also useful for screening drugs for cancer therapy and
 CC gene therapy
 XX
 SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 5.9e+02;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 1465 GCGGCCGAGCCCTCA 1480
 Db 16 GCTGGCCGAGCCCTCA 1
 Db
 RESULT 890
 AAS02581/c
 ID AAS02581 standard; DNA; 16 BP.
 XX
 AC AAS02581;
 XX
 DT 29-AUG-2001 (first entry)
 XX
 DE PCR primer EIF used in analysis of multiple tumour suppressor MTS1/2.
 XX
 KW Human; multiple tumour suppressor; MTS1; MTS2; therapeutic; diagnostic;
 KW cancer; gene therapy; melanoma; leukemia; astrocytoma; glioblastoma;
 KW lymphoma; glioma; Hodgkin's lymphoma; chronic lymphatic leukemia;
 KW PCR primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN US6210949-B1.
 XX
 PD 03-APR-2001.
 XX
 PF 30-NOV-1998; 98US-00201139.
 XX
 PR 17-MAR-1995; 95WO-US003316.
 PR 07-JUN-1995; 95US-00487033.
 PR 28-JUL-1995; 95US-00508735.
 XX
 PA (MYRI-) MYRIAD GENETICS INC.
 XX
 PI Stone S, Jiang P, Kamb A;
 XX
 DR WPI; 2001-280859/29.
 XX
 PT New mouse multiple tumor suppressor gene, useful for diagnosing or
 PT prognosing human cancer or as gene therapy for treating cancer,
 PT particularly melanoma, leukemia, astrocytoma, lymphoma or cancers of the
 PT pancreas or breast.
 XX
 PS Example 14; Col 54; 80pp; English.
 XX
 CC The sequence represents PCR primer EIF used in analysis of multiple
 CC tumour suppressor MTS1 and MTS2. The MTS genes, and expression products,
 CC are useful for treating, diagnosing or prognosing human cancer. In
 CC particular, the MTS gene is useful for diagnosing a predisposition to or
 CC as a gene therapy for melanoma, leukemia, astrocytoma, glioblastoma,
 CC lymphoma, glioma, Hodgkin's lymphoma, chronic lymphatic leukemia (CLL),
 CC or cancers of the pancreas, breast, thyroid, ovary, uterus, testis,
 CC kidney, stomach or rectum. The gene may be used in both cancerous and pre
 CC -cancerous cells
 XX
 SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 5.9e+02;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 1465 GCGGCCGAGCCCTCA 1480
 Db 16 GCTGGCCGAGCCCTCA 1
 Db

DT 14-JUL-2000 (first entry)
XX
XX Antisense oligonucleotide #17 targeting the PTS operon.
XX
KW Antisense oligonucleotide; treat; inhibit translation; diagnose;
KW cell wall biosynthesis; ribosomal RNA; ribosomal protein; pathogenicity;
KW nutrient uptake; bacterial infection; PTS operon; Haemophilus influenzae;
KW Phosphoenolpyruvate-sugar phosphotransferase system; ss.
XX
XX Haemophilus influenzae.
XX
XX WO200015265-A1.
XX
XX PD 23-MAR-2000.
XX
XX PF 15-SEP-1999; 99WO-US021950.
XX
XX PR 16-SEP-1998; 98US-0100591P.
XX PR 16-SEP-1998; 98US-0100598P.
XX PR 16-SEP-1998; 98US-0100599P.
XX PR 16-SEP-1998; 98US-0100625P.
XX
XX PA (VITA-) VITAGENIX INC.
XX
XX PI Selfert W;
XX
XX DR WPI; 2000-271267/23.
XX
XX PT New antisense oligonucleotide, useful for treating and diagnosing
XX bacterial infections, interacts with and inhibits translation of a target
XX RNA sequence in bacteria.
XX
XX PS Claim 10; Page 29; 50pp; English.
XX
XX CC This sequence represents an antisense oligonucleotide that targets genes
XX of the phosphoenolpyruvate-sugar phosphotransferase system (PTS) operon.
XX CC The invention relates to antisense oligonucleotides (e.g. the present
XX CC sequence) which interact with and inhibit translation of a target RNA
XX CC sequence in a bacterium. The RNA sequences that the oligonucleotides
XX CC target encode proteins such as enzymes for biosynthesis of cell wall
XX CC proteins, ribosomal RNA, ribosomal proteins, proteins essential for
XX CC nutrient uptake, proteins associated with pathogenicity, subunits of DNA-
XX CC dependent RNA polymerase, and DNA polymerase. The antisense
XX CC oligonucleotides are used to treat or diagnose bacterial infections
XX
XX SQ Sequence 16 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 12.8; DB 1; Length 16;
XX Best Local Similarity 68.8%; Pred. No. 5.9e+02;
XX Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
XX
XX OY 383 ACAUCAUCAUGAUCG 398
XX DB 16 ACATCTGCATGATCG 1
XX
XX
XX RESULT 887
XX AA11192/C
XX ID AA11192 standard; DNA; 16 BP.
XX
XX AC AA11192;
XX
XX DT 11-OCT-2000 (first entry)
XX
XX DE Human multiple tumour suppressor 2 cDNA PCR primer E1F.
XX
XX KW Variant; human; multiple tumour suppressor; MTS; mutation; melanoma;
XX cancer; diagnosis; PCR primer; ss.
XX
XX OS Homo sapiens.
XX
XX PA US6037462-A.
XX

PD 14-MAR-2000.
XX
XX PF 22-JUL-1998; 98US-00120130.
XX
XX PR 18-MAR-1994; 94US-00214582.
XX PR 18-MAR-1994; 94US-00215086.
XX PR 18-MAR-1994; 94US-00215087.
XX PR 14-APR-1994; 94US-00227369.
XX PR 01-JUN-1994; 94US-00251938.
XX PR 17-MAR-1995; 95WO-US00316.
XX PR 07-JUN-1995; 95US-00480810.
XX
XX PA (MYRI-) MYRIAD GENETICS INC.
XX
XX PI Kamb A;
XX
XX DR WPI; 2000-269915/23.
XX
XX PT New mutants of the human multiple tumor suppressor gene, useful as
XX diagnostic markers of cancer, contain specific base alterations or
XX deletions.
XX
XX PS Example 13; Col 51; 72pp; English.
XX
XX CC The invention relates to variants (AA11196-AA11206) of the human multiple
XX CC tumour suppressor 1 (MTS1) gene (AA11165). The variants have the
XX CC following changes relative to this sequence: A at any of positions 265,
XX CC 442, 330 and 329; T at any of positions 172, 238, 341 and 148 and
XX CC deletions of nucleotides 290-294, 172-179 or 128-129. The variants are
XX CC somatic mutations of MTS1, indicative of predisposition to melanoma and
XX CC many other cancers, so detecting them is useful for diagnosis, prognosis
XX CC and monitoring of cancer (including prenatal analysis). Cells and animals
XX CC that express the variants are useful as model systems for identifying
XX CC potential anticancer agents. This sequence represents a primer used to
XX CC screen for the human MTS2 sequence (AA11182)
XX
XX SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 12.8; DB 1; Length 16;
XX Best Local Similarity 81.2%; Pred. No. 5.9e+02;
XX Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
XX
XX OY 1465 GCGGCCGAGACCCUCA 1480
XX DB 16 GCTGCCGAGACCCCTCA 1
XX
XX
XX RESULT 888
XX AAA66959
XX ID AAA66959 standard; DNA; 16 BP.
XX
XX AC AAA66959;
XX
XX DT 19-OCT-2000 (first entry)
XX
XX DE Human leukocyte antigen A allele DNA probe A368A SEQ ID NO:17.
XX
XX KW Human leukocyte antigen; HLA; class I allele type; probe; PCR primer;
XX amplification; hybridisation; organ transplant; gene typing; diagnosis;
XX ss.
XX
XX OS Homo sapiens.
XX
XX PA WO200031295-A1.
XX
XX PD 02-JUN-2000.
XX
XX PF 07-OCT-1999; 99WO-JP005527.
XX
XX PR 26-NOV-1998; 98JP-00335151.
XX
XX PA (SHIO) SHIONOGI & CO LTD.
XX


```
PR 18-MAR-1994; 94US-00215086.
PR 18-MAR-1994; 94US-00215087.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003537.
PR 07-JUN-1995; 95US-00474083.
XX
XX (UTAH ) UNIV UTAH RES FOUND.
PA (MRI-) MYRIAD GENETICS INC.
XX Skolnick ME, Cannon-Albright LA, Kamb A;
XX WPI; 2000-070785/06.
XX
XX WPI; 2000-070785/06.
XX
XX Diagnosing a polymorphism associated with a predisposition for cancer.
XX
XX Example 13; Col 51; 74pp; English.
XX
XX This sequence is a PCR primer for DNA encoding the human MTS2 protein.
XX The invention relates to a method for diagnosing a polymorphism
XX associated with a predisposition to cancer by detecting a germ-line
XX alteration of a wild-type Multiple Tumour Suppressor (MTS) gene or its
XX expression products in a human sample. The method comprises detecting a
XX germ-line alteration of a wild-type MTS gene or its expression products
XX in a human sample, the alteration indicating a predisposition to at least
XX one of the cancers. The cancer is selected from melanoma, leukaemia,
XX astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's lymphoma, chronic
XX lymphocytic leukaemia (CLL), and cancers of the pancreas, breast,
XX thyroid, ovary, uterus, testis, kidney, stomach and rectum. The method
XX may be used as the basis for developing very important diagnostic tests
XX capable of predicting the predisposition to cancer. The MTS gene is
XX involved in the progression of multiple tumour types and may provide
XX means for a general anti-cancer therapy by virtue of its ability to
XX suppress tumour growth
XX
XX SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 12.8; DB 1; Length 16;
XX Best Local Similarity 81.2%; Pred. No. 5.9e+02;
XX Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1465 GCGGCCAGACCCCTCA 1480
XX |||||
XX 16 GCTGGCAGACCCCTCA 1
XX
XX RESULT 882
XX AAZ3998/C
XX ID AAZ3998 standard; DNA; 16 BP.
XX
XX AC AAZ3998;
XX
XX DT 11-FEB-2000 (first entry)
XX
XX DE PCR primer for human multiple tumour suppressor 2 coding sequence.
XX
XX KW Multiple tumour suppressor; MTS2; human; diagnosis; Hodgkin's lymphoma;
XX cancer predisposition; melanoma; leukaemia; lymphoma; glioma; PCK primer;
XX ss.
XX
XX OS Synthetic.
XX OS Homo sapiens.
XX
XX FM US994095-A.
XX
XX PD 30-NOV-1999.
XX
XX PF 07-JUN-1995; 95US-00486047.
XX
XX PR 18-MAR-1994; 94US-00214582.
XX PR 18-MAR-1994; 94US-00215086.
XX PR 18-MAR-1994; 94US-00215087.
XX PR 14-APR-1994; 94US-00227369.
```

```
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003316.
XX
XX (MYRI-) MYRIAD GENETICS INC.
XX
XX PI Kamb A;
XX
XX WPI; 2000-038259/03.
XX
XX Multiple tumor suppressor cDNA, useful for diagnosing or determining a
XX predisposition to cancer.
XX
XX Example 13; Col 51; 72pp; English.
XX
XX This sequence represents a PCR primer for the human multiple tumour
XX suppressor 2 (MTS2) coding sequence of the invention. The DNA sequences
XX are useful for diagnosing or determining a predisposition to cancers e.g.
XX melanoma, leukaemia, lymphoma, glioma, Hodgkin's lymphoma and cancers of
XX the pancreas, breast, thyroid, ovary, kidney, uterus and stomach
XX
XX SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 12.8; DB 1; Length 16;
XX Best Local Similarity 81.2%; Pred. No. 5.9e+02;
XX Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1465 GCGGCCAGACCCCTCA 1480
XX |||||
XX 16 GCTGGCAGACCCCTCA 1
XX
XX Db 16 GCTGGCAGACCCCTCA 1
XX
XX RESULT 883
XX AAA86546
XX ID AAA86546 standard; DNA; 16 BP.
XX
XX AC AAA86546;
XX
XX DT 04-DEC-2000 (first entry)
XX
XX DE Cyclin B1 hairpin ribozyme recognition site #6.
XX
XX KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
XX OS Mammalia.
XX
XX PN WO200032765-A2.
XX
XX PD 08-JUN-2000.
XX
XX PF 06-DEC-1999; 99WO-US028772.
XX
XX PR 04-DEC-1998; 98US-0110954P.
XX
XX PA (IMMU-) IMMUSOL INC.
XX
XX PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
XX DR WPI; 2000-412314/35.
XX
XX WPI; 2000-412314/35.
XX
XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
XX RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
XX PCNA and Cyclin B1.
XX
XX Example 1; Page 16; 109pp; English.
XX
XX The present invention relates to a hairpin or hammerhead ribozyme,
XX designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
XX other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
XX CC Representative examples of ribozyme recognition sites are given in
XX AA82415 to AA86787. The ribozyme of the invention is useful for
XX inhibiting restenosis by introduction of the ribozyme into cells. The
XX CC ribozyme is resistant to endonuclease activity and hence is efficient in
XX restenosis treatment
```


DE Human MTS2 mRNA expression detection primer.
 XX Cytostatic; human; multiple tumour suppressor 2; MTS2; diagnostic;
 KW cancer; gene therapy; protein replacement therapy; PCR primer; ss.
 XX Homo sapiens.
 OS
 XX US6090578-A.
 PN
 XX 18-JUL-2000.
 PD
 XX 08-DEC-1997; 97US-00986515.
 PF
 XX 18-MAR-1994; 94US-00214582.
 PR 18-MAR-1994; 94US-00215086.
 PR 18-MAR-1994; 94US-00215087.
 PR 14-APR-1994; 94US-00227369.
 PR 01-JUN-1994; 94US-00251938.
 PR 17-MAR-1995; 95WO-US003316.
 PR 07-JUN-1995; 95US-00480810.
 XX
 XX (MTRI-) MYRIAD GENETICS INC.
 XX
 XX Kamb A;
 PI
 XX MPI; 2000-514036/46.
 DR
 XX Novel protein composition useful in protein replacement therapy for
 PT diagnosing and treating cancer comprises a specific weight percent of
 PT human multiple tumor suppressor 1 polypeptide.
 PS Example 13; Col 52; 72pp; English.
 XX
 XX The invention relates to the isolation of the gene encoding the human
 CC multiple tumour suppressor 1 (MTS1) (AA95633). The MTS1 protein has a
 CC cytosolic activity and is used in protein replacement therapy. This
 CC sequence is a PCR primer used in the determination of the expression
 CC levels of human MTS2 gene from primary T cells. MTS1 is useful in
 CC diagnosing human cancers such as (ocular) melanoma, leukemia,
 CC astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's lymphoma, multiple
 CC myeloma, sarcoma, myosarcoma, cholangiocarcinoma, squamous cell
 CC carcinoma, CLL, and cancers of pancreas, breast, stomach, brain,
 CC prostate, bladder, thyroid, ovary, uterus, testis, kidney, colon and
 CC rectum. The MTS1 gene and protein is useful in gene therapy, protein
 CC replacement therapy and protein mimetic studies
 XX
 XX Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 5.9e+02;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 1465 GCGGCCGACAGCCCTCA 1480
 DB 16 GCTGGCCAGACCTCA 1
 AC
 AC AAZ97624;
 XX
 DT 15-SEP-2003 (revised)
 DT 26-APR-2000 (first entry)
 XX
 XX HIV-1 protease gene probe SEQ ID NO:114.
 DE
 KW Human immunodeficiency virus; HIV; protease; probe; detection;
 KW drug selected mutation; hybridisation; genotyping; infection;
 KW drug resistance; ss.
 XX
 OS Human immunodeficiency virus 1.

XX
 PN WO967428-A2.
 XX
 PD 29-DEC-1999.
 XX
 XX 22-JUN-1999; 99WO-EP004317.
 PF
 XX 24-JUN-1998; 98BP-00870143.
 PR
 XX (INNO-) INNOGENETICS NV.
 PA
 XX Stuyver L;
 PI
 XX MPI; 2000-147219/13.
 DR
 XX Detection of drug-selected mutations in the HIV protease gene used to
 PT treat HIV infections.
 PT
 XX Claim 3; Page 34; 76pp; English.
 PS
 XX The present invention describes the detection of drug-selected mutations
 CC in the HIV protease gene. The method of detection allows the simultaneous
 CC characterisation of a range of codons involved in drug resistance using
 CC sets of probes optimised to function together in a reverse-hybridisation
 CC assay. AAZ97517 to AAZ97997 represent specifically claimed probes for use
 CC in the assay, and AAZ97479 to AAZ97501 represent specifically claimed HIV
 CC protease gene polymorphic nucleotide sequences. AAZ97502 to AAZ97515, and
 CC AAZ98004 to AAZ98007, represent PCR primers for the HIV protease gene,
 CC and AAZ97516 represents an HIV protease probe used in an example from the
 CC present invention. The method, probes and primers can be used for the
 CC detection of drug-selected mutations in the HIV protease gene. The method
 CC allows the simultaneous characterisation of a range of codons involved in
 CC drug resistance. The method may also be used for HIV protease genotyping
 CC assays. The probes are able to discriminate between wild type and mutated
 CC protease sequences. The method allows rapid and reliable detection of
 CC drug-selected mutation in HIV. (Updated on 15-SEP-2003 to standardise OS
 CC field)
 XX
 XX Sequence 16 BP; 8 A; 1 C; 4 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 50.0%; Pred. No. 5.9e+02;
 Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
 QY 685 CCCACCAUACUUNUG 700
 DB 16 CCCACTATTATTTTG 1
 AC
 AC AAZ48799;
 XX
 DT 21-MAR-2000 (first entry)
 DT
 XX
 XX PCR primer for human MTS2 coding sequence.
 DE
 KW MTS; human; polymorphism detection; cancer predisposition; astrocytoma;
 KW Multiple Tumour Suppressor gene; melanoma; leukemia; glioblastoma;
 KW lymphoma; glioma; Hodgkin's lymphoma; chronic lymphocytic leukaemia;
 KW therapy; MTS2; PCR primer; ss.
 XX
 OS Homo sapiens.
 XX
 XX US5989815-A.
 PN
 XX 23-NOV-1999.
 PD
 XX 29-APR-1997; 97US-00848251.
 PF
 XX 18-MAR-1994; 94US-00214582.
 PR

CC suppressor (MTS) gene, to diagnose and treat cancer. The MTS gene is
CC useful in the diagnosis and prognosis of human cancer, e.g. by standard
CC nucleic hybridisation techniques, of patient samples. The mutated
CC sequences are those that are present in somatic mutations of the gene in
CC cancers. The vectors can be used for gene therapy strategies to replace
CC function of mutated protein in patients. These can also be used to
CC construct protein mimetics, also for therapeutic strategies. In addition
CC the expression constructs can also be used for recombinant production of
CC MTS. Recombinant MTS can be used to screen for drugs to be used for
CC cancer therapy, and the protein itself may also be used to restore MTS
CC function in a cell
XX
SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.9e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1465 GCGGCCGAGACCTCA 1480
DB 16 GCTGGCCAGACCTCA 1
XX
RESULT 877
AAV1255/c
ID AAV1255 standard; DNA; 16 BP.
XX
AC AAV1255;
XX
DT 15-JUL-1998 (first entry)
XX
DE Human MTS2 PCR primer El.F.
XX
KW MTS1; MTS2; multiple tumour suppressor; diagnosis; cancer;
KM germ-line mutation; familial melanoma locus; MLM; predisposition; ss.
XX
OS Synthetic.
OS Homo sapiens.
OS
XX
PN US5739027-A.
XX
PD 14-APR-1998.
XX
PF 07-JUN-1995; 95US-00487033.
XX
PR 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
PR 18-MAR-1994; 94US-00215087.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003316.
XX
XX
XX (MYRI-) MYRIAD GENETICS INC.
XX
XX
XX Kamb A;
XX
XX
XX WPI; 1998-250421/22.
XX
PT DNA specific for Multiple Tumour Suppressor 1E1.beta gene - are useful
PT for the diagnosis of cancers related to MTS1E1-beta mutation(s) and their
PT treatment.
XX
XX Example 13; Col 81-82; 72pp; English.
XX
XX
XX Primer AAV1255 is used in the isolation of the human multiple tumour
XX suppression protein, MTS2. The MTS gene locus is also referred to as the
XX familial melanoma (MLM) gene locus, located on human chromosome 9p21.
XX
XX Germ line mutations in MTS genes can be used in the diagnosis of
XX predisposition to cancers, e.g. melanoma, leukaemia, astrocytoma,
XX glioblastoma, lymphoma, Hodgkin's lymphoma, CLL, and cancers of
XX the pancreas, breast, thyroid, ovary, uterus, testis, kidney, stomach and
XX rectum
XX

SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.9e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1465 GCGGCCGAGACCTCA 1480
DB 16 GCTGGCCAGACCTCA 1
XX
RESULT 878
AAV70600/c
ID AAV70600 standard; DNA; 16 BP.
XX
AC AAV70600;
XX
DT 20-MAR-2003 (revised)
DT 03-FEB-1999 (first entry)
XX
DE PCR primer B1F for multiple tumour suppressor 2 gene.
XX
XX Human; multiple tumour suppressor 2 gene; MTS2; cancer; PCR primer; ss.
XX
XX
XX Synthetic.
OS Homo sapiens.
OS
XX
PN US5843756-A.
XX
PD 01-DEC-1998.
XX
PF 28-JUL-1995; 95US-00508735.
XX
PR 17-MAR-1995; 95WO-US003316.
PR 07-JUN-1995; 95US-00487033.
XX
XX (MYRI-) MYRIAD GENETICS INC.
XX
XX
XX Jiang P, Kamb A, Stone S;
XX
XX WPI; 1999-044585/04.
XX
XX
XX Mouse multiple tumour suppressor gene segment - useful for primer design.
XX
XX
XX Example 14; Col 54; 80pp; English.
XX
XX PCR primers AAV70600-02 were used to amplify a human multiple tumour
XX suppressor 2 (MTS2) gene. The MTS2 gene nucleotide sequence can be used
XX to design primers to detect abnormalities i.e. polymorphisms which may
XX predispose towards malignancies such as melanoma, leukaemia, astrocytoma,
XX lymphoma, glioma, as well as tumours of e.g. the breast, thyroid,
XX CC pancreas, uterus and kidneys. (Updated on 20-MAR-2003 to correct PR
XX field.) (Updated on 20-MAR-2003 to correct PR field.)
XX
SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.9e+02;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1465 GCGGCCGAGACCTCA 1480
DB 16 GCTGGCCAGACCTCA 1
XX
RESULT 879
AAA95660/c
ID AAA95660 standard; DNA; 16 BP.
XX
AC AAA95660;
XX
DT 14-FEB-2001 (first entry)
XX

XX	Human multiple tumour suppressor gene 2 cDNA primer E1F.
DE	
XX	primer; polymerase chain reaction; PCR; amplification; human; multiple;
KW	tumour; suppressor; MTS2; cancer; diagnosis; ss.
XX	
OS	Synthetic.
XX	
PN	US5624819-A.
PD	
XX	29-APR-1997.
PF	
XX	07-JUN-1995; 95US-00474177.
PR	18-MAR-1994; 94US-00214582.
PR	18-MAR-1994; 94US-00215086.
PR	14-APR-1994; 94US-00215087.
PR	01-JUN-1994; 94US-00227369.
PR	17-MAR-1995; 95WO-US003537.
PA	(MYRI-) MYRIAD GENETICS INC.
PA	(UTAH) UNIV UTAH RES FOUND.
XX	
XX	Cannon-Albright LA, Kamb A, Skolnick MH;
DR	WPI, 1997-258217/23.
PT	Human mutant multiple tumour suppressor gene sequences - for production
PT	of recombinant mutant polypeptide(s).
XX	
PS	Example 13; Col 79-80; 72pp; English.
CC	The present sequence is primer for the PCR amplification of the human
CC	multiple tumour suppressor gene 2 (MTS2) cDNA; useful in cancer
CC	diagnosis. (Updated on 25-MAR-2003 to correct PF field.)
XX	
SQ	Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
OY	
DB	1465 GCGGCCAGACCCUCA 1480
	16 GCTGGCCAGACCCCTCA 1
RESULT 875	
AAT60188	
ID	AAT60188 standard; DNA; 16 BP.
XX	
AC	AAT60188;
XX	
DT	03-FEB-1998 (first entry)
XX	
DE	Synthetic cyclin B1 ribozyme recognition site #6.
XX	
KW	Ribozyme; hairpin; hammerhead; recognition site; cyclin B1; restenosis;
KW	growth factor; oncogene; vascular tissue;
XX	smooth muscle cell proliferation; ss.
OS	Synthetic.
XX	
PN	WO9710334-A2.
PD	20-MAR-1997.
XX	
PF	12-SEP-1996; 96WO-US014838.
XX	
PR	12-SEP-1995; 95US-00527060.
XX	
PA	(IMMU-) IMMUSOL INC.

[illegible]

CC lymphoma, CLL and cancers of the pancreas, thyroid, ovary, uterus,
 CC testis, kidney, stomach and rectum. The wild-type gene is useful for gene
 CC therapy and MTS polypeptides may also be used for protein replacement
 CC therapy. Also the polypeptides or cells contg. an altered MTS gene are
 CC useful for screening for potential cancer therapeutics

SQ Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 5.9e+02;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1465 GCGGCCAGACCCUCA 1480

Db 16 GCTGGCCAGACCTCA 1

RESULT 872

AA00733/C
 ID AA00733 standard; DNA; 16 BP.

AC AA00733;

DT 08-MAY-1996 (first entry)

DE Multiple tumour suppressor 2 (MTS2) gene PCR primer.

KM Multiple tumour suppressor; MTS2; cancer; diagnosis; assay;

KW predilection; melanoma; leukaemia; lymphoma; prognosis; pancreas;
 breast; thyroid; PCR primer; ss.

OS Synthetic.

PN WO9525813-A1.

PD 28-SEP-1995.

PF 17-MAR-1995; 95WO-US003537.

PR 18-MAR-1994; 94US-00214582.

PR 18-MAR-1994; 94US-00215086.

PR 14-APR-1994; 94US-00227369.

PR 01-JUN-1994; 94US-00251938.

PA (UTAH) UNIV UTAH RES FOUNDED.

PA (MYRI-) MYRIAD GENETICS INC.

XX Skolnick MH, Cannon-Albright LA, Kamb A;

DR WPI; 1995-344626/44.

XX Detecting polymorphism associated with cancer pre-disposition - also DNA,
 PT vectors and host cells e.g. for gene or protein replacement therapy and
 PT drug screening.

PS Example 13; Page 72; 148pp; English.

XX An individual can be diagnosed as having a predisposition to cancer by
 CC detecting an alteration in the wild type multiple tumour suppressor (MTS)
 CC gene, using gene probes which hybridise to the MTS2 gene (amplified using
 CC the PCR primers AA00733/26. The above assay can also be used in the
 CC diagnosis and prognosis of melanoma, lymphoma, leukaemia and pancreas,
 CC breast and thyroid cancers, etc

XX Sequence 16 BP; 2 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 5.9e+02;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1465 GCGGCCAGACCCUCA 1480

||| ||||| ||||| |||

Db 16 GCTGGCCAGACCTCA 1

RESULT 873
 AA091218
 ID AA091218 standard; RNA; 16 BP.

AC AA091218;

DT 18-DEC-1997 (first entry)

DE Hairpin ribozyme recognition site in human hepatitis B virus 1164.

KM Hairpin ribozyme; inhibition; replication; infectivity; HBV;

KW hepatitis B virus; hepatitis; human; ss.

OS Hepatitis B virus.

FH Key Location/Qualifiers

FT misc_feature 5..6
 FT tag= a
 /standard_name= "Cleavage_Site"

PN WO9708309-A2.

PD 06-MAR-1997.

PP 29-AUG-1996; 96WO-US013975.

PR 29-AUG-1995; 95US-00521255.

PA (IMMU-) IMMUSOL INC.

XX Goldenberg T, Yu M, Welch PJ, Barber JR;

DR WPI; 1997-179266/16.

XX New hairpin ribozyme - for inhibiting replication and infectivity of
 PT hepatitis B virus.

PS Example 1; Page 17; 34pp; English.

XX A new hairpin ribozyme has been developed which is able to inhibit
 CC replication and infectivity of hepatitis B virus (HBV). The present
 CC sequence represents a hairpin ribozyme recognition site in human HBV. The
 CC hairpin ribozyme, and the nucleic acid encoding it, can be introduced
 CC into a cell infected with HBV, or susceptible to infection, to inhibit
 CC the replication/infectivity of HBV. Alternatively, cells transduced with
 CC a vector ex vivo are administered to a patient. Hairpin ribozymes act on
 CC pregenomic RNA and so are potentially capable of eliminating
 CC (extra)hepatic replication and transport of HBV in all infected patients,
 CC including chronic carriers. Also infection by hepatitis D (which requires
 CC HBV surface antigen as its envelope) is prevented

SQ Sequence 16 BP; 2 A; 5 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 87.5%; Pred. No. 5.9e+02;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 326 GCCUGCCUGGCCGA 341

Db 1 GCTUGGUCUGGCCAA 16

RESULT 874

AA09786/C
 ID AA09786 standard; DNA; 16 BP.

AC AA09786;

DT 25-MAR-2003 (revised)
 DT 10-SEP-1997 (first entry)

```

PI leavitt MC, Tritz R, Feng Y, Barber J, Yu M;
XX WPI; 1998-261188/23.
XX
XX Endo-ribonuclease nucleic acids - which encode ribozymes which cleave co-
XX receptor RNA expressed in cells, used particularly for inhibiting HIV
XX infection of cells.
XX
XX Claim 3; Page 29; 83pp; English.
XX
XX This represents a target sequence of HIV-1 co-receptor fusin. The
XX invention provides endo-ribonuclease nucleic acid that encodes a ribozyme
XX which cleaves a co-receptor RNA expressed in a cell. The co-receptor RNA
XX is a member of the seven trans-membrane protein receptor family. This can
XX be used in a method of inhibiting HIV infection of a cell which comprises
XX cleaving a co-receptor mRNA expressed in the cell. The co-receptor mRNA
XX encodes an HIV co-receptor protein selected from fusin, beta-chemokine
XX receptor-5 (CCR-5), CCR-3 and CCR-2b. The cleavage of the co-receptor
XX mRNA inhibits the production of the selected co-receptor protein, thereby
XX inhibiting HIV infection of the cell. The endo-ribonucleases can be used
XX to specifically cleave RNAs. The method can be used for inhibiting HIV
XX infection of cells by inhibiting expression of HIV co-receptor on the
XX surface of cells. Because the level of co-receptor on the surface of the
XX cell is reduced, HIV entry into the cells is inhibited. Cleavage of HIV
XX co-receptor mRNA using targeted ribozymes is not cytotoxic to cells
XX expressing the co-receptor and the cells retain normal immune function.
XX (Updated on 17-OCT-2003 to standardise OS field)
XX
XX Sequence 16 BP; 3 A; 9 C; 2 G; 0 T; 2 U; 0 Other;
XX
XX Query Match 0.7%; Score 13; DB 1; Length 16;
XX Best Local Similarity 84.6%; Pred. No. 5.6e+02;
XX Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1238 GCGUGACGATG 1250
XX |||:|||||:
XX 13 GCGTGACGATG 1
XX
XX RESULT 870
XX AAQ92112
XX ID AAQ92112 standard; DNA; 16 BP.
XX
XX AAQ92112;
XX
XX 11-JAN-1996 (first entry)
XX
XX p53 detection probe, (codon 89 del 1 C).
XX
XX Primer; polymerase chain reaction; amplify; mutant; K-ras; PCR;
XX flanking region; amplification; probe; detection; sputum; diagnosis;
XX benign; malignant; neoplasm; lung; lung cancer; head; neck; ss.
XX
XX Synthetic.
XX
XX WO9513397-A1.
XX
XX 18-MAY-1995.
XX
XX 10-NOV-1994; 94WO-US012947.
XX
XX 12-NOV-1993; 93US-00152313.
XX
XX (UYUO ) UNIV JOHNS HOPKINS SCHOOL MED.
XX
XX Sidransky D;
XX
XX WPI; 1995-194114/25.
XX
XX Detecting target nucleic acid in mammalian sputum - particularly for
XX diagnosis of lung neoplasia involving mutation(s) in the K-ras oncogene
XX or p53 tumour suppressor.
XX

```

```

PS Example 1; Page 29; 122pp; English.
XX
XX The sequences given in AAQ92112-211 are probes which were used in the
XX detection of a mutant p53 gene sequence. The DNA to be detected is
XX amplified using PCR and then these probes which are pref. labeled using
XX 32-P gamma-ATP are used to detect the mutant sequences. The primers and
XX probes given in AAQ92098-219 are used in the method of the invention for
XX detecting mammalian target DNA in sputum samples. Analysis of the target
XX DNA is used to diagnose benign or malignant neoplasms of the lung. It is
XX also useful for screening people at high risk or for monitoring progress
XX of treatment of lung neoplasms. The method is based on the discovery that
XX mutant target DNA associated with lung cancer is present at detectable
XX levels in sputum. Cells shed into sputum from head and neck cancers may
XX also be detected
XX
XX Sequence 16 BP; 2 A; 9 C; 3 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 0.7%; Score 12.8; DB 1; Length 16;
XX Best Local Similarity 75.0%; Pred. No. 5.9e+02;
XX Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
XX
XX 45 CAUCAGCUCCTCCUGG 60
XX |||:|||||:
XX 1 CACCAAGCCCTCCTGG 16
XX
XX RESULT 871
XX AAQ9941/C
XX ID AAQ9941 standard; cDNA; 16 BP.
XX
XX AAQ9941;
XX
XX 07-MAY-1996 (first entry)
XX
XX Human MTS2 PCR heminested reverse primer, E21F.
XX
XX Multiple tumour suppressor; El-alpha; diagnosis; cancer; leukaemia;
XX astrocytoma; glioblastoma; Hodgkin's lymphoma; melanoma; glioma;
XX gene therapy; chronic; ss.
XX
XX Homo sapiens.
XX
XX WO9525429-A1.
XX
XX 28-SEP-1995.
XX
XX 17-MAR-1995; 95WO-US003316.
XX
XX 18-MAR-1994; 94US-00214581.
XX 18-MAR-1994; 94US-00214582.
XX 18-MAR-1994; 94US-00215088.
XX 14-APR-1994; 94US-00227369.
XX 01-JUN-1994; 94US-00251938.
XX
XX (MYRI-) MYRIAD GENETICS INC.
XX
XX Kamb A;
XX
XX WPI; 1995-344401/44.
XX
XX Wild-type multiple tumour suppressor (MTS) gene and mutant sequences -
XX useful in diagnosis, prognosis and therapy of human cancer, e.g. melanoma
XX or leukaemia.
XX
XX Example 13; Page 72; 156pp; English.
XX
XX The cDNA sequences encoding several multiple tumour suppressor (MTS)
XX polypeptides have been isolated and sequenced, using various sequencing
XX and amplification primers such as the primer represented in this
XX sequence. MTS polypeptide-encoding cDNAs and mutants of these are useful
XX for the diagnosis or prognosis of human cancer. Germ-line mutations of
XX MTS cDNAs can be used for diagnosing predisposition to melanoma,
XX leukaemia, astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's
XX

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RESULT 867
AAD53513
ID AAD53513 standard; DNA; 15 BP.
XX
AC AAD53513;
XX
DT 26-MAY-2003 (first entry)
XX
DE Human GNRH2 gene polymorphism detecting ASO primer #5.
XX
KW Human; gonadotropin-releasing hormone 2; GNRH2; reproductive disorder;
KW gynaecological; cytosstatic; hormonal; target validation; gene therapy;
KW drug screening; lead compound; allele-specific oligonucleotide; ASO;
KW primer; ss.
XX
OS Homo sapiens.
XX
PN WO200294850-A2.
XX
PD 26-NOV-2002.
XX
PF 01-NOV-2001; 2001WO-US050630.
XX
PR 18-MAY-2001; 2001WO-US016353.
XX
PA (GENA-) GENA1SSANCE PHARM INC.
XX
PI Duda A, Klieem SE, Mandabalan K, Sausker EA;
XX
DR WPI; 2003-148454/14.
XX
PT New gonadotropin-releasing hormone 2 (GNRH2) polypeptide encoded by
PT genetic variants having polymorphisms in the GNRH2 gene, for studying the
PT function of, and treating disorders, such as, reproductive disorders.
XX
PS Claim 14; Col 13; 33pp; English.
XX
CC The invention relates to gonadotropin-releasing hormone 2 (GNRH2) and its
CC nucleic acid sequence. Polymorphic variants of the GNRH2 gene are useful
CC in studying the expression and function of GNRH2, and in expressing GNRH2
CC proteins for use in screening candidate drugs for treating diseases
CC associated with GNRH2 activity, such as reproductive disorders.
CC Polynucleotides comprising a polymorphic gene variant or fragment may be
CC used for therapeutic purposes, where a patient could benefit from
CC expression or increased expression of a particular GNRH2 protein isoform,
CC or an expression vector encoding the isoform may be administered to the
CC patient. Haplotype information is useful in improving the efficiency and
CC output of several steps in a drug discovery and development process,
CC including target validation, identifying lead compounds, and early phase
CC clinical trials. GNRH2 gene is used in gene therapy. The present sequence
CC is an allele-specific oligonucleotide (ASO) primer used for detecting
CC human GNRH2 gene polymorphisms
XX
SQ Sequence 15 BP; 2 A; 6 C; 3 G; 3 T; 0 U; 1 Other;
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 4.9e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1164 CCUGCAGGUGCCUGA 1178
DB 1 CCTGCAGCTGCCCTRA 15
RESULT 868
ACN37146
ID ACN37146 standard; DNA; 15 BP.
XX
AC ACN37146;
XX
DT 18-NOV-2004 (first entry)
```

```
XX
DE Human periodontal disease related gene PON1 PCR primer SEQ ID NO:56.
XX
KW Periodontal disease; polymorphism; ss; human; PCR; primer.
XX
OS Homo sapiens.
XX
PN WO2004042054-A1.
XX
PD 21-MAY-2004.
XX
PF 22-OCT-2003; 2003WO-IB004669.
XX
PR 23-OCT-2002; 2002JP-00308634.
XX
PA (HUB1-) HUBIT GENOMIX INC.
XX
PA (KAMO/) KAMO1 K.
XX
PI Kamol K, Suzuki A, Numabe Y, Ji G, Muramatsu M, Baba M;
XX
DR WPI; 2004-400678/37.
XX
PT Single nucleotide polymorphisms associated with periodontal disease for
PT examination and assessment of susceptibility to periodontal disease.
XX
PS Example 1; SEQ ID NO 56; 0pp; Japanese.
XX
CC The invention relates to a novel method for examination of periodontal
CC disease in which genetic polymorphisms are detected in one or more of 51
CC genes. The method is useful for examination, diagnosis and assessment of
CC periodontal disease or risk of periodontal disease and the risk of its
CC progression to severe, aggressive and chronic periodontal disease. The
CC present sequence represents a PCR primer used in the exemplification of
CC the invention
XX
SQ Sequence 15 BP; 3 A; 8 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 4.9e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 62 UACACAGCCCCUC 74
DB 1 TACACAGCCCTC 13
RESULT 869
AAV43494/C
ID AAV43494 standard; RNA; 16 BP.
XX
AC AAV43494;
XX
DT 17-OCT-2003 (revised)
DT 14-SEP-1998 (first entry)
XX
DE HIV-1 co-receptor fusin target sequence 9.
XX
KW Endo-ribonuclease; ribozyme; cleave; co-receptor RNA; HIV infection;
KW chemokine receptor; CXR; fusin; ss.
XX
OS Human immunodeficiency virus 1.
XX
PN WO9817308-A1.
XX
PD 30-APR-1998.
XX
PF 24-OCT-1997; 97WO-US019923.
XX
PR 25-OCT-1996; 96US-0027875P.
XX
PR 19-DEC-1996; 96US-00770235.
XX
PA (IMMU-) IMMUSOL INC.
XX
```

XX Sequence 15 BP; 3 A; 5 C; 3 G; 3 T; 0 U; 1 Other;
SQ Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 73.3%; Pred. No. 4.9e+02;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 452 CCAGCAUCCUCUG 466
DB 1 CCAGCAAYGCTTCTG 15
RESULT 865
ABK81787
ID ABK81787 standard; DNA; 15 BP.
XX
AC ABK81787;
XX
DT 13-AUG-2002 (first entry)
XX
DE Human CHRM5 gene polymorphism detection ASO primer #13.
XX
KW Human; cholinergic receptor muscarinic 5; CHRM5; genotyping; haplotyping;
KM single nucleotide polymorphism; SNP; allele-specific oligonucleotide;
KW ASO; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200232924-A2.
XX
PD 25-APR-2002.
XX
PF 11-OCT-2001; 2001WO-US032022.
XX
PR 19-OCT-2000; 2000WO-US029071.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bieglecki KM, Chew A, Choi JY, Denton RR, Nandabalan K;
PI Sausker EA, Stephens JC;
XX
DR WPI; 2002-435523/46.
XX
PT Novel cholinergic receptor, muscarinic 5 polynucleotide useful
PT therapeutically and in screening for candidate drug to treat diseases
PT related to the receptor activity.
XX
PS Claim 14; Page 13; 72pp; English.
XX
CC The present invention relates to a new cholinergic receptor, muscarinic 5
CC (CHRM5) polynucleotide comprising a sequence which is a polymorphic
CC variant for a reference sequence for the CHRM5 gene or its fragment, or a
CC polymorphic variant of a reference sequence for a CHRM5 cDNA or its
CC fragment. The invention is useful in drug screening assays. The molecules
CC of the invention are useful in studying the expression and function of
CC CHRM5, and in expressing CHRM5 protein for use in screening for candidate
CC drugs to treat diseases related to CHRM5 activity. The methods of the
CC invention are useful in developing diagnostic tests and therapeutic
CC treatments. The method is also useful in the design of clinical trials of
CC candidate drugs for treating specific condition or disease associated
CC with CHRM5 activity and is useful in determining whether an individual
CC has one of the haplotypes or one of the haplotype pairs. The invention is
CC useful in a variety of diagnostic and prognostic formats and therapeutic
CC methods. The invention is also useful in genotyping and/or haplotyping
CC the CHRM5 gene in an individual. The present nucleic acid sequence
CC represents one of a collection of allele-specific oligonucleotide (ASO)
CC primers (ABK81775-ABK81794) that were used in the invention to detect
CC polymorphisms in the human CHRM5 gene
XX
SQ Sequence 15 BP; 4 A; 4 C; 5 G; 1 T; 0 U; 1 Other;
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 4.9e+02;

Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 446 ACGUAGCCAGCAUG 460
DB 1 ACGTGCCAGCAAYG 15
RESULT 866
ABK81790/C
ID ABK81790 standard; DNA; 15 BP.
XX
AC ABK81790;
XX
DT 13-AUG-2002 (first entry)
XX
DE Human CHRM5 gene polymorphism detection ASO primer #16.
XX
KW Human; cholinergic receptor muscarinic 5; CHRM5; genotyping; haplotyping;
KM single nucleotide polymorphism; SNP; allele-specific oligonucleotide;
KW ASO; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200232924-A2.
XX
PD 25-APR-2002.
XX
PF 11-OCT-2001; 2001WO-US032022.
XX
PR 19-OCT-2000; 2000WO-US029071.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bieglecki KM, Chew A, Choi JY, Denton RR, Nandabalan K;
PI Sausker EA, Stephens JC;
XX
DR WPI; 2002-435523/46.
XX
PT Novel cholinergic receptor, muscarinic 5 polynucleotide useful
PT therapeutically and in screening for candidate drug to treat diseases
PT related to the receptor activity.
XX
PS Claim 14; Page 13; 72pp; English.
XX
CC The present invention relates to a new cholinergic receptor, muscarinic 5
CC (CHRM5) polynucleotide comprising a sequence which is a polymorphic
CC variant for a reference sequence for the CHRM5 gene or its fragment, or a
CC polymorphic variant of a reference sequence for a CHRM5 cDNA or its
CC fragment. The invention is useful in drug screening assays. The molecules
CC of the invention are useful in studying the expression and function of
CC CHRM5, and in expressing CHRM5 protein for use in screening for candidate
CC drugs to treat diseases related to CHRM5 activity. The methods of the
CC invention are useful in developing diagnostic tests and therapeutic
CC treatments. The method is also useful in the design of clinical trials of
CC candidate drugs for treating specific condition or disease associated
CC with CHRM5 activity and is useful in determining whether an individual
CC has one of the haplotypes or one of the haplotype pairs. The invention is
CC useful in a variety of diagnostic and prognostic formats and therapeutic
CC methods. The invention is also useful in genotyping and/or haplotyping
CC the CHRM5 gene in an individual. The present nucleic acid sequence
CC represents one of a collection of allele-specific oligonucleotide (ASO)
CC primers (ABK81775-ABK81794) that were used in the invention to detect
CC polymorphisms in the human CHRM5 gene
XX
SQ Sequence 15 BP; 5 A; 1 C; 5 G; 3 T; 0 U; 1 Other;
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 53.3%; Pred. No. 4.9e+02;
Matches 8; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
QY 686 CCACCAUACUUCUG 700
DB 15 CVACCATCACTTTTG 1

CC primer
XX Sequence 15 BP; 0 A; 6 C; 3 G; 5 T; 0 U; 1 Other;
SQ
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 4.9e+02;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 815 GCACAGAGCAGAGA 829
Db 15 GKCACAGCAGAGA 1
RESULT 863
ABSS9475/C
ID ABSS9475 standard; RNA; 15 BP.
AC
XX ABS9475;
XX
DT 05-NOV-2002 (first entry)
XX
XX RNA sequence #1, for sample identification.
XX
XX Genetic affinity; virus; genetic relative; node; bifurcating tree; ss;
KM genetic relationship; signature probe; phylogenetic affinity;
KM space flight; medicine; indoor air quality; bioweapon; mass destruction;
KM epidemic; phylogenetic tree; air filtrate; government building;
KM bioterrorism agent; molecular beacon; bacteria; Bacillus; Kohne approach.
XX
OS Borelia sp.
OS Brachyspira sp.
OS Spirochaeta sp.
OS Treponema sp.
PN WO200259348-A2.
XX
PD 01-AUG-2002.
XX
PF 26-JUN-2002; 2002WO-US002564.
XX
PR 26-JUN-2001; 2001US-0264403P.
XX
PA (TECH-) TECHNOLOGY LICENSING CO LLC.
XX
PI Fox GE, Wilson RC, Zhang Z;
XX
XX WPI; 2002-619174/66.
XX
PT Determining the genetic affinity of organisms or viruses useful in
PT bioterrorism, comprises determining which nodes in the bifurcating tree
PT of genetic relationship that designs the signature probes produces the
PT hybridization signal.
XX
XX Claim 15; Page 36; 62pp; English.
XX
PS The present invention relates to a new method for determining the genetic
CC affinity of organisms or viruses in the test sample. The method involves
CC identifying the closest known genetic relatives of the organisms or virus
CC by determining which nodes in the bifurcating tree of genetic
CC relationship was used to design the signature probes. The method is
CC useful in identifying the phylogenetic affinity of an unknown organism
CC useful for unanticipated problems involving microorganisms that concerns
CC space flight, medicine, indoor air quality, bioweapons of mass
CC destruction, or epidemics. The signature sequences are useful in the
CC hybridization to determine the phylogenetic tree positions of the
CC organisms in the sample. The method can also be useful as an assay for
CC bioterrorism. Air filtrate from a government building was collected and
CC nucleic acids isolated. RNA was enriched using DNase and RNA fragmented
CC by heating. Probes specific to several known bioterrorism agents give
CC negative results. Molecular beacon based scoring of signature sequences
CC reveals the presence of unexpectedly high concentrations of bacteria with
CC genetic affinity to genus Bacillus. The method provides a more rapid
CC approach for determining the affinity of organisms in the test sample.

CC The methodology is more general than the specifically targeted tests of
CC the Kohne approach, and faster and more convenient than detailed
CC sequencing of the rRNAs or their encoding DNA. The present nucleic acid
CC sequence represents an RNA sequence that was used in the methods of the
CC invention for sample identification
XX
SQ Sequence 15 BP; 3 A; 4 C; 7 G; 0 T; 1 U; 0 Other;
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 76.9%; Pred. No. 4.9e+02;
Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1024 GCUCGUCGUCGCC 1036
Db 14 GCTGCTGCTCTCC 2
RESULT 864
ABK81771
ID ABK81771 standard; DNA; 15 BP.
AC
XX ABK81771;
XX
DT 13-AUG-2002 (first entry)
XX
XX Human CHRM5 gene polymorphism detection ASO probe #7.
DE Human CHRM5 gene polymorphism detection ASO probe #7.
XX Human; cholinergic receptor muscarinic 5; CHRM5; genotyping; haplotyping;
KM single nucleotide polymorphism; SNP; allele-specific oligonucleotide;
KM ASO; probe; ss.
XX
OS Homo sapiens.
XX
PN WO200232924-A2.
XX
PD 25-APR-2002.
XX
PF 11-OCT-2001; 2001WO-US032022.
XX
PR 19-OCT-2000; 2000WO-US029071.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bieglecki KM, Chew A, Choi JY, Denton RR, Nandabalan K;
PI Saubker EA, Stephens JC;
XX
XX WPI; 2002-435523/46.
XX
PT Novel cholinergic receptor, muscarinic 5 polynucleotide useful
PT therapeutically and in screening for candidate drug to treat diseases
PT related to the receptor activity.
XX
XX Claim 14; Page 13; 72pp; English.
XX
PS The present invention relates to a new cholinergic receptor, muscarinic 5
CC (CHRM5) polynucleotide comprising a sequence which is a polymorphic
CC variant for a reference sequence for the CHRM5 gene or its fragment, or a
CC polymorphic variant of a reference sequence for a CHRM5 cDNA or its
CC fragment. The invention is useful in drug screening assays. The molecules
CC of the invention are useful in studying the expression and function of
CC CHRM5, and in expressing CHRM5 protein for use in screening for candidate
CC drugs to treat diseases related to CHRM5 activity. The methods of the
CC invention are useful in developing diagnostic tests and therapeutic
CC treatments. The method is also useful in the design of clinical trials of
CC candidate drugs for treating specific condition or disease associated
CC with CHRM5 activity and is useful in determining whether an individual
CC has one of the haplotypes or one of the haplotype pairs. The invention is
CC useful in a variety of diagnostic and prognostic formats and therapeutic
CC methods. The invention is also useful in genotyping and/or haplotyping
CC the CHRM5 gene in an individual. The present nucleic acid sequence
CC represents one of a collection of allele-specific oligonucleotide (ASO)
CC probes (ABK81765-ABK81774) that were used in the invention to detect
CC polymorphisms in the human CHRM5 gene

CC The invention comprises DNA, cDNA and protein sequences of the human
 CC electron-transfer Flavoprotein, beta polypeptide (ETPB) gene (located on
 CC chromosome 19q13.3-13.4). The invention specifically relates to the
 CC identification of 27 novel polymorphic sites within the ETPB gene.
 CC Electron-transfer flavoprotein (ETP) is an obligatory electron acceptor
 CC for nine primary flavoprotein dehydrogenases and is located in the
 CC mitochondrial matrix. ETP is composed of an alpha (ETPA) and a beta
 CC (ETPB) subunit. Electrons accepted by ETP are transferred to the
 CC mitochondrial respiratory chain by ETP dehydrogenase (ETPDhe).
 CC Deficiency of ETP or ETPDH leads to glutaric acidemia type II (GAI1).
 CC Therefore ETPB is a pharmaceutically-important gene in the treatment of
 CC GAI1. The novel ETPB polymorphisms identified in the invention are useful
 CC for genotyping and haplotyping the ETPB gene of an individual. The ETPB
 CC protein and nucleic acids of the invention are useful for studying the
 CC expression and function of ETPB in vivo. The ETPB protein and nucleic
 CC acids are also useful for testing the efficacy of therapeutic agents and
 CC compounds for glutaric acidemia type II. The nucleic acids of the
 CC invention are useful in the production of a transgenic animal expressing
 CC the ETPB gene. Nucleic acids AB13914-AB13940 represent claimed ETPB
 CC allele-specific probes. Nucleic acids AB13941-AB13949 represent claimed
 CC ETPB allele-specific PCR primers. Nucleic acids AB13945-AB13958
 CC represent claimed ETPB primer-extension oligonucleotides
 CC
 CC Sequence 15 BP; 2 A; 4 C; 6 G; 2 T; 0 U; 1 Other;

Query Match	0.7%	Score 13;	DB 1;	Length 15;
Best Local Similarity	73.3%	Pred. No. 4.9e+02;		
Matches	11;	Conservative	3;	Mismatches 1;
				Indels 0;
				Gaps 0;

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OY      1470 CCAGACCCUCAGUC 1484
          ||| |||: |||: ||
Db      15   CYAGCCCTCAGTGC 1

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RESULT 861
 ABRK34185
 ID ABRK34185 standard; DNA; 15 BP.
 AC ABRK34185;
 XX
 XX 08-MAY-2002 (first entry)
 DT
 DE Human interleukin 12B (IL12B) gene, allele-specific oligonucleotide #9.
 XX
 DE Human; interleukin 12B; IL12B; haplotype; SNP; primer; ss;
 KW single nucleotide polymorphism; allele-specific oligonucleotide.
 XX
 XX Homo sapiens.
 OS
 XX
 PN WO200210190-A2.
 XX
 PD 07-FEB-2002.
 XX
 PF 30-JUL-2001; 2001WO-US023927.
 XX
 PR 29-JUL-2000; 2000US-0221436P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Messer C, Sanchis A;
 XX
 DR WPI; 2002-188721/24.
 XX
 PT New genetic variants having polymorphisms in the human interleukin 12B
 PT (IL12B) gene, useful for studying the function of IL12B, and for treating
 PT disorders affected by expression or function of the IL12B isogene.
 CC
 PS Claim 16; Page 13; 95pp; English.
 XX

The invention relates to an isolated polynucleotide, comprising genes and
 haplotypes of the interleukin 12B (IL12B) gene. The polynucleotide
 comprises polymorphic sites in the IL12B gene, referred to as P51-11. The
 observed and identified haplotypes, isogenes and polymorphisms of the

IL12B gene, as well as the locations of these polymorphisms, are fully defined in a table in the specification. Also described is an isolated polypeptide comprising an amino acid sequence which is a polymorphic variant of a reference sequence for the IL12B protein or its fragment. Polynucleotides comprising a polymorphic gene variant or fragment may be used for therapeutic purposes, where a patient could benefit from expression or increased expression of a particular IL12B protein isoform, or an expression vector encoding the isoform may be administered to the patient. IL12B peptide variants may be used to as antigens to generate antibodies specific for the IL12B isoforms, and in drug screening assays. Compositions comprising the polynucleotide of the isogenes may be used to treat disorders affected by expression or function of the IL12B-isogene. ABK34177-ABK34231 represent human interleukin 12B gene, allele-specific oligonucleotides of the invention

SQ Sequence 15 BP; 2 A; 4 C; 2 G; 6 T; 0 U; 1 Other;
 Query Match 0.7%; Score 13; DB 1; Length 15;
 Best Local Similarity 46.7%; Pred. No. 4.9e+02;
 Matches 7; Conservative 7; Mismatches 1; Indels 0; Gaps 0

QY 205 GUCUUCAUCCGCUUC 215
|:|:|:|:|:|:|
Db 1 GTCCTCAYAGCTTTC 15

RESULT 862
AAL42977/c
ID AAL42977 standard; DNA; 15 BP.

XX Moswigen J, Usman N, Blatt L, Beigelman L, Burgin A,
PI Karpelstiy A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B,
PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
XX WPI; 2001-244406/25.
XX
PT Enzymatic nucleic acid molecules able to cleave separate RNA molecules
PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
PT obesity and heart disease.
XX
PS Example 16; Page 619; 717pp; English.
XX
XX The present invention relates to the use of enzymatic nucleic acid
CC molecules (e.g. ribozymes) to modulate gene expression. The invention
CC also methods for their use to down regulate or inhibit the expression of
CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
CC aminopeptidase (MeAP-2), human telomerase (hTERT), protein kinase C
CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
CC nucleic acid molecules used to inhibit the expression of the said genes
CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme,
CC zincyme, and/or DNAzyme motifs. The methods of the invention are useful
CC for treating cancer, in particular breast cancer, Alzheimer's disease,
CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
CC diseases, hepatitis B infections, and hepatitis and hepatocellular
CC carcinoma. The enzymatic nucleic acid molecules can also be used as
CC diagnostic tools to examine genetic drift and mutations within diseased
CC cells and to detect the presence of specific RNA in a cell. The present
CC sequence represents a substrate/target sequence for a ribozyme used in
CC the examples of the present invention. Note: Some SEQ ID Nos are repeated
CC more than once in the specification, but these have different sequences
CC associated with them.
XX
SQ Sequence 15 BP; 4 A; 4 C; 4 G; 0 T; 3 U; 0 Other;
XX
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 4.9e+02;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
XX
QY 861 UCGAAGCTGCGAGC 873
DB 14 TCGAAGCTGCGAGC 2
XX
RESULT 859
AAD25418
ID AAD25418 standard; DNA; 15 BP.
XX
AC AAD25418;
XX
DT 12-MAR-2002 (first entry)
XX
DE Human GNRH2 gene polymorphism detecting ASO primer #5.
XX
XX Human, gonadotropin-releasing hormone 2; GNRH2 gene; haplotyping;
KM genotyping; gene therapy; reproductive disorder; polymorphism;
KM allele specific oligonucleotide; ASO; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200187910-A2.
XX
PD 22-NOV-2001.
XX
PF 18-MAY-2001; 2001WO-US016353.
XX
PR 18-MAY-2000; 2000US-0205187P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PS Duda A, Klien SE, Nandabalan K, Sausker BA;
PI

XX
DR WPI; 2002-055683/07.
XX
XX New genetic variants of gonadotropin-releasing hormone 2 isogene, useful
PT in studying expression and function of protein and for screening drugs to
PT treat diseases e.g. reproduction disorders.
XX
PS Claim 16; Page 13; 64pp; English.
XX
XX The invention relates to genetic variants of human gonadotropin-
CC releasing hormone 2 (GNRH2) gene. The invention also relates to
CC compositions and methods for haplotyping and/or genotyping the GNRH2 gene
CC in an individual. Polynucleotides of the invention are useful for
CC studying the expression and function of GNRH2 and in expressing GNRH2
CC proteins for use in screening candidate drugs to treat diseases related
CC to GNRH2 activity. They are also used in gene therapy. The methods of the
CC invention are useful in determining whether an individual has a haplotype
CC or haplotype pairs. The haplotyping method is useful for improving the
CC efficiency and reliability of several steps in the discovery and
CC development of drugs for treating diseases associated with GNRH2
CC activity, e.g., reproductive disorders. The present sequence is an allele
CC specific oligonucleotide (ASO) primer used for detecting human GNRH2 gene
CC polymorphisms
XX
SQ Sequence 15 BP; 2 A; 6 C; 3 G; 3 T; 0 U; 1 Other;
XX
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 4.9e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1164 CCUGCAGUGCCUGA 1178
DB 1 CCGCAGCTGCCCTRA 15
XX
RESULT 860
ABL39489/c
ID ABL39489 standard; DNA; 15 BP.
XX
AC ABL39489;
XX
DT 22-APR-2002 (first entry)
XX
DE Human ETRF8 allele-specific oligonucleotide primer 49.
XX
XX Human, electron-transfer flavoprotein beta polypeptide; ETRF8;
KM electron acceptor; mitochondrial matrix; glutaric acidemia type II;
KM novel polymorphic site; novel polymorphism; ETRF8 genotype; ss; GAII;
KM ETRF8 haplotype; transgenic animal; primer; probe; chromosome 19q13;
KM primer-extension oligonucleotide; single nucleotide polymorphism; SNP.
XX
OS Homo sapiens.
XX
PN WO200202580-A2.
XX
PD 10-JAN-2002.
XX
PF 05-JUL-2001; 2001WO-US021306.
XX
PR 05-JUL-2000; 2000US-0215984P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bentivegna SC, Bieglecki KM, Kazemi A, Koshy B;
XX
XX WPI; 2002-154722/20.
XX
DR Novel isolated human electron-transfer-flavoprotein, beta polynucleotide,
PT useful for therapeutic purposes, for studying the expression and function
PT of the polynucleotide, and for expressing the flavoprotein.
XX
XX Claim 17; Page 15; 143pp; English.
XX

Query Match	0.74;	Score 13;	DB 1;	Length 15;
Best Local Similarity	84.68;	Pred. No. 4.9e+02;		
Matches 11;	Conservative 2;	Mismatches 0;	Indels 0;	Gaps 0;
861 UCGAAGCGCAGC 873	:			
15 TCGAAGCTGCAGC 3				
RESULT 857				
ADV37407/C				
ADV37407 standard; RNA; 15 BP.				
ADV37407;				
10-FEB-2005 (first entry)				
Human anti-HER2 NCH ribozyme substrate sequence #1098.				
Enzymatic nucleic acid molecule; gene expression; down regulation;				
protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;				
MetAP-2; human telomerase; hTERC; protein kinase C alpha; PKC alpha;				
beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;				
c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;				
hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver				
amberzyme; zinczyme; zinczyme; cancer; breast cancer; Alzheimer's disease;				
diabetes; obesity; cardiac disease; heart disease; age-related disease;				
hepatitis B infection; hepatocellular carcinoma; genetic drift; human;				
ss.				
Homo sapiens.				
WO200116312-A2.				
08-MAR-2001.				
30-AUG-2000; 2000MO-US023998.				
31-AUG-1999; 99US-0151713P.				
27-SEP-1999; 99US-00406643.				
27-SEP-1999; 99US-0156236P.				
27-SEP-1999; 99US-0156467P.				
08-NOV-1999; 99US-00436430.				
06-DEC-1999; 99US-0169100P.				
29-DEC-1999; 99US-00474432.				
29-DEC-1999; 99US-0173612P.				
30-DEC-1999; 99US-00476387.				
04-FEB-2000; 2000US-00498824.				
20-MAR-2000; 2000US-00531025.				
14-APR-2000; 2000US-0197769P.				
23-MAY-2000; 2000US-00578223.				
09-AUG-2000; 2000US-00636385.				
(RIBO-) RIBOZYME PHARM INC.				
Mcwigen J, Ueman N, Blatt L, Beigelman L, Burgin A;				
Karpelesky A, Maculic-Adamic J, Sweedler D, Draper K, Chowrira B;				
Strichomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;				
WPI; 2001-244406/25.				
Enzymatic nucleic acid molecules able to cleave separate RNA molecules				
are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,				
obesity and heart disease.				
Example 7; Page 494; 717pp; English.				

ID	Sequence	Similarity	Score	DB	Length
CC	alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor				
CC	receptor-2 (HER2/c-erbB2/neu), phospholamban (PLN), presenilin-1 (ps-1),				
CC	presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic				
CC	nucleic acid molecules used to inhibit the expression of the said genes				
CC	include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme,				
CC	zinczyme, and/or DNzyme motifs. The methods of the invention are useful				
CC	for treating cancer, in particular breast cancer, Alzheimer's disease,				
CC	diabetes, obesity, cardiac diseases e.g. heart disease, age-related				
CC	diseases, hepatitis B infections, and hepatitis and hepatocellular				
CC	carcinoma. The enzymatic nucleic acid molecules can also be used as				
CC	diagnostic tools to examine genetic drift and mutations within diseased				
CC	cells and to detect the presence of specific RNA in a cell. The present				
CC	sequence represents a substrate/target sequence for an anti-HER2 NCH				
CC	ribozyme used in the examples of the present invention. Note: Some SEQ ID				
CC	nos are repeated more than once in the specification, but these have				
CC	different sequences associated with them.				
XX	Sequence 15 BP; 5 A; 3 C; 5 G; 0 T; 2 U; 0 Other;				
Qy	Query Match	0.7%	Score 13;	DB 1;	Length 15;
Db	Best Local Similarity	61.5%	Pred. No. 4.9e+02;		
	Matches 8; Conservative 5; Mismatches 0; Indels 0; Gaps 0;				
	936 CTCTGGTGTACCA 948				
	13 CTCTGGTGTACCA 1				
RESULT 858					
ADV63338/c					
ID	ADV63338 standard; RNA; 15 BP.				
XX	ADV63338;				
XX	AC				
XX	10-FEB-2005 (first entry)				
DT					
DE	Human Her2 class II ribozyme substrate sequence #11.				
XX					
XX	Enzymatic nucleic acid molecule; gene expression; down regulation;				
KW	protein-tyrosine-phosphatase-1b; PTP-1B; methionine aminopeptidase;				
KW	MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;				
KW	beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;				
KW	c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;				
KW	hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver;				
KW	amberzyme; zinczyme; DNzyme; cancer; breast cancer; Alzheimer's disease;				
KW	diabetes; obesity; cardiac disease; heart disease; age-related disease;				
KW	hepatitis B infection; hepatocellular carcinoma; genetic drift; human;				
XX	85.				
OS	Homo sapiens.				
XX					
XX	WO200116312-A2.				
PN					
XX	08-MAR-2001.				
PD					
XX					
XX	30-AUG-2000; 2000WO-US023998.				
PF					
XX					
XX	31-AUG-1999; 99US-0151713P.				
PR	27-SEP-1999; 99US-00406643.				
PR	27-SEP-1999; 99US-0156236P.				
PR	27-SEP-1999; 99US-0156467P.				
PR	08-NOV-1999; 99US-00436430.				
PR	06-DEC-1999; 99US-0169100P.				
PR	29-DEC-1999; 99US-00474432.				
PR	29-DEC-1999; 99US-0173612P.				
PR	30-DEC-1999; 99US-00476387.				
PR	04-FEB-2000; 2000US-00498824.				
PR	20-MAR-2000; 2000US-00531025.				
PR	14-APR-2000; 2000US-0197769P.				
PR	23-MAY-2000; 2000US-00578223.				
PR	09-AUG-2000; 2000US-00636385.				
PA	(RIBO-) RIBOZYME PHARM INC.				

AC AAF4812;
XX
XX 30-MAR-2001 (first entry)
XX IGFBR3 oligonucleotide #2232.
DE
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytostatic; dermatological; cardiant; vincidic; ophthalmological; keloid;
XX skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pteryiasis;
XX IGF binding protein; IGFBR-2; IGFBR3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hypervascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
XX Homo sapiens.
OS
XX WO20078341-A1.
PN
XX
XX 28-DEC-2000.
PD
XX 21-JUN-2000; 2000MO-AU000693.
PF
XX 21-JUN-1999; 99US-0140345P.
PR
XX (MURD-) MURDOCH CHILDRENS RES INST.
PA
XX Wraight CJ, Werther GA, Edmondson SR;
PI WPI; 2001-041421/05.
DR
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
XX Example 7; Page 58; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBR3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC P45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pteryiasis, ruba, pilaris, serborrhoea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hypervascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
XX Sequence 15 BP; 1 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
SQ

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 4.9e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 648 GCCUCGCGAGAG 660
|||:|||||
DB 15 GCCTCCGGAGAG 3

RESULT 856
ADV35610/C
ID ADV35610 standard; RNA; 15 BP.
XX
XX ADV35610;
AC
XX 10-FEB-2005 (first entry)
DT
XX

DE Human anti-HER2 NCH ribozyme substrate sequence #194.
XX
XX Enzymatic nucleic acid molecule; gene expression; down regulation;
XX protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
XX MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
XX beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
XX c-erbB; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
XX hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver;
XX amperzyme; zinzyme; DNazyme; cancer; breast cancer; Alzheimer's disease;
XX diabetes; obesity; cardiac disease; heart disease; age-related disease;
XX hepatitis B infection; hepatocellular carcinoma; genetic drift; human;
XX ss.
XX
XX Homo sapiens.
OS
XX WO200116312-A2.
PN
XX
XX 08-MAR-2001.
PD
XX
XX 30-AUG-2000; 2000MO-US023998.
PF
XX
XX 31-AUG-1999; 99US-0151713P.
PR
XX 27-SEP-1999; 99US-00406643.
PR
XX 27-SEP-1999; 99US-0156236P.
PR
XX 27-SEP-1999; 99US-0156467P.
PR
XX 08-NOV-1999; 99US-00436430.
PR
XX 06-DEC-1999; 99US-0169100P.
PR
XX 29-DEC-1999; 99US-00474432.
PR
XX 30-DEC-1999; 99US-0173612P.
PR
XX 30-DEC-1999; 99US-00476387.
PR
XX 04-FEB-2000; 2000US-00498824.
PR
XX 20-MAR-2000; 2000US-00531025.
PR
XX 14-APR-2000; 2000US-0197769P.
PR
XX 23-MAY-2000; 2000US-00578223.
PR
XX 09-AUG-2000; 2000US-00636385.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Meswigen J, Usman N, Blatt L, Beigelman L, Burgin A;
PI Karpatsky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B;
PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
XX
XX WPI; 2001-24406/25.
DR
XX
XX Enzymatic nucleic acid molecules able to cleave separate RNA molecules
PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
PT obesity and heart disease.
XX
XX Example 7; Page 475; 717pp; English.
XX
XX The present invention relates to the use of enzymatic nucleic acid
CC molecules (e.g. ribozymes) to modulate gene expression. The invention
CC also methods for their use to down regulate or inhibit the expression of
CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
CC receptor-2 (HER2/C-erbB2/neu), phospholamban (PLN), presenilin-1 (ps-1);
CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
CC nucleic acid molecules used to inhibit the expression of the said genes
CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amperzyme,
CC zinzyme, and/or DNazyme motifs. The methods of the invention are useful
CC for treating cancer, in particular breast cancer, Alzheimer's disease,
CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
CC diseases, hepatitis B infections, and hepatitis and hepatocellular
CC carcinoma. The enzymatic nucleic acid molecules can also be used as
CC diagnostic tools to examine genetic drift and mutations within diseased
CC cells and to detect the presence of specific RNA in a cell. The present
CC sequence represents a substrate/target sequence for an anti-HER2 NCH
CC ribozyme used in the examples of the present invention. Note: Some SEQ ID
CC Nos are repeated more than once in the specification, but these have
CC different sequences associated with them.
XX
XX Sequence 15 BP; 3 A; 4 C; 5 G; 0 T; 3 U; 0 Other;
SQ

DB 15 CTTCTCTYACAGAA 1

RESULT 853

AAFA8814/C

AAFA8814 standard; DNA; 15 BP.

AAFA8814;

30-MAR-2001 (first entry)

IGFBP3 oligonucleotide #2234.

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; vitricide; ophthalmological; keloid; skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

Homo sapiens.

MO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999; 99US-0140345P.

(MURD-) MURDOCH CHILDRENS RES INST.

Wraight CJ, Werther GA, Edmondson SR;

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 7; Page 58; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAFA5151 and AAFA5153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, ptyriasis, ruba, pilaris, seborrhoea, keloids, keratosis, neoplasia, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

Sequence 15 BP; 2 A; 7 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.7%; Score 13; DB 1; Length 15;

Best Local Similarity 92.3%; Pred. No. 4.9e+02; Mismatches 0; Indels 0; Gaps 0;

648 GCCTCCGGAGAG 660

13 GCCTCCGGAGAG 1

RESULT 854

AAFA8813/C

AAFA8813 standard; DNA; 15 BP.

AAFA8813;

30-MAR-2001 (first entry)

IGFBP3 oligonucleotide #2233.

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; vitricide; ophthalmological; keloid; skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

Homo sapiens.

MO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999; 99US-0140345P.

(MURD-) MURDOCH CHILDRENS RES INST.

Wraight CJ, Werther GA, Edmondson SR;

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 7; Page 58; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAFA5151 and AAFA5153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, ptyriasis, ruba, pilaris, seborrhoea, keloids, keratosis, neoplasia, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

Sequence 15 BP; 1 A; 7 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.7%; Score 13; DB 1; Length 15;

Best Local Similarity 92.3%; Pred. No. 4.9e+02; Mismatches 0; Indels 0; Gaps 0;

648 GCCTCCGGAGAG 660

14 GCCTCCGGAGAG 2

RESULT 855

AAFA8812/C

AAFA8812 standard; DNA; 15 BP.

XX AC AAT5673;
XX DT 25-MAR-2003 (revised)
XX DT 21-MAR-1997 (first entry)
XX DE Human TNF-alpha hammerhead ribozyme target sequence (nt position 226).
XX KW Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
KW intercellular adhesion molecule; rel A; tumour necrosis factor;
KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
KW translocation; chronic myelogenous leukaemia; CML; cancer;
KW Philadelphia chromosome; inflammation; autoimmune disease;
KW atherosclerosis; myocardial infarction; stroke; restenosis;
KW transplant rejection; rheumatoid arthritis; psoriasis;
KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;
KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
ss.
XX OS Homo sapiens.
XX PN WO9523225-A2.
XX PD 31-AUG-1995.
XX PF 23-FEB-1995; 95WO-1B000156.
XX PR 23-FEB-1994; 94US-00201109.
PR 29-MAR-1994; 94US-00218934.
PR 04-APR-1994; 94US-00222795.
PR 07-APR-1994; 94US-00224483.
PR 15-APR-1994; 94US-00227958.
PR 15-APR-1994; 94US-00228041.
PR 18-MAY-1994; 94US-00245736.
PR 06-JUL-1994; 94US-00271280.
PR 15-AUG-1994; 94US-00291932.
PR 16-AUG-1994; 94US-00291433.
PR 17-AUG-1994; 94US-00292620.
PR 19-AUG-1994; 94US-00293520.
PR 02-SEP-1994; 94US-00300000.
PR 08-SEP-1994; 94US-00303039.
PR 23-SEP-1994; 94US-00311486.
PR 23-SEP-1994; 94US-00311749.
PR 28-SEP-1994; 94US-00314397.
PR 03-OCT-1994; 94US-00316771.
PR 07-OCT-1994; 94US-00319492.
PR 11-OCT-1994; 94US-00321993.
PR 04-NOV-1994; 94US-00334847.
PR 10-NOV-1994; 94US-00337608.
PR 28-NOV-1994; 94US-00345516.
PR 16-DEC-1994; 94US-00357577.
PR 23-DEC-1994; 94US-00363233.
PR 30-JAN-1995; 95US-00380734.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PI Stinchcomb DT, Chowrira B, Drenzo A, Draper KG, Dudycz LW;
PI Grimm S, Karpeisly A, Kislich K, Matulic-Adamic J, Mcswiggen JA;
PI Modak A, Pavo P, Beigelman L, Sullivan SM, Sweedler D, Thompson JD;
PI Tracz D, Usman N, Wincott FE, Woolf T;
XX DR MPI; 1995-351090/45.
XX KW Ribozymes having modified bases and methods for producing them - for use
PT in inhibiting disease related genes.
XX PS Claim 2; Page 241; 407pp; English.
XX CC The present sequence represents a preferred target sequence for an
CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves TNF-alpha mRNA at
CC the nucleotide base position indicated in the DE line. Regions of the
CC mRNA that do not form secondary folding structures and that contain

CC potential hammerhead and hairpin ribozyme cleavage sites were identified
CC by computer analysis. Ribozymes directed against these mRNA sequences
CC were designed and synthesised with modifications that improve their
CC nuclease resistance. The ribozymes are designed to cleave the target
CC sequences and thereby inhibit TNF-alpha expression, making them
CC potentially useful for treating rheumatoid arthritis, septic shock and
CC other inflammatory disorders including psoriasis, as well as for
CC treatment of AIDS. (Updated on 25-MAR-2003 to correct PI field.)
XX SQ Sequence 15 BP; 1 A; 8 C; 2 G; 0 T; 4 U; 0 Other;
XX
XX Query Match 0.7%; Score 13; DB 1; Length 15;
XX Best Local Similarity 92.3%; Pred. No. 4.9e+02;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1231 CAGAGAGCGGUGG 1243
Db 13 CAGAGAGCGGTGG 1
RESULT 852
AA167297/c
ID AA167297 standard; DNA; 15 BP.
XX AC AA167297;
XX DT 11-FEB-2002 (first entry)
XX DE Human FKBP8 allele-specific oligonucleotide (ASO) probe.
XX KW FK506-binding protein 8; FKBP8; haplotyping; polymorphism; cancer; ss;
KW immunosuppression; human; allele-specific oligonucleotide; ASO; probe.
XX OS Homo sapiens.
XX PN WO200172965-A2.
XX PD 04-OCT-2001.
XX PR 26-MAR-2001; 2001WO-US009718.
XX PR 24-MAR-2000; 2000US-0192125P.
XX PA (GENA-) GENA1SSANCE PHARM INC.
XX PI Anastasio AE, Bentivegna SC, Choi JY, Klieem SE, Koshy B;
PI Stephens JC;
XX DR MPI; 2001-626261/72.
XX PT New haplotypes of the FK506-binding protein 8 gene, useful for genotyping
PT that gene in individual and to design new therapy for associated disease
PT such as immunosuppression and cancer.
XX PS Claim 15; Page 13; 98pp; English.
XX CC The invention relates to haplotyping the FK506-binding protein 8 (38kD)
CC (FKBP8) gene in an individual. The method involves determining the
CC identity of the nucleotide pair at one or more polymorphic sites selected
CC from PI to p26 (described in the specification). The invention is useful
CC to improve the efficiency and reliability of several steps in the
CC discovery and development of drugs for treating diseases associated with
CC FKBP8 activity, for example immunosuppression and cancer. Sequences
CC AA167274-299 represent allele-specific oligonucleotide (ASO) probes for
CC detecting FKBP8 gene polymorphisms
XX SQ Sequence 15 BP; 3 A; 2 C; 4 G; 5 T; 0 U; 1 Other;
XX
XX Query Match 0.7%; Score 13; DB 1; Length 15;
XX Best Local Similarity 66.7%; Pred. No. 4.9e+02;
XX Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1366 CUGUCCUUCAGGAA 1380

```

PR 07-OCT-1994; 94US-00319492.
PR 11-OCT-1994; 94US-00321993.
PR 04-NOV-1994; 94US-00334847.
PR 10-NOV-1994; 94US-00337608.
PR 18-NOV-1994; 94US-00345516.
PR 16-DEC-1994; 94US-00357577.
PR 23-DEC-1994; 94US-00363233.
PR 30-JAN-1995; 95US-00380734.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PI Stinchcomb DT, Chowrira B, Drenzo A, Draper KG, Dudycz LW,
PI Grimm S, Karpeisky A, Kisch K, Matulic-Adamic J, McSwiggen JA,
PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD,
PI Tracz D, Usman N, Wincott FE, Woolf T;
XX WPI; 1995-351090/45.
XX
XX Ribozymes having modified bases and methods for producing them - for use
XX in inhibiting disease related genes.
XX
XX Claim 2; Page 250; 407pp; English.
XX
XX The present sequence represents a preferred target sequence for an
XX enzymatic nucleic acid (i.e. a ribozyme) which cleaves TNF-alpha mRNA at
XX the nucleotide base position indicated in the DE line. Regions of the
XX mRNA that do not form secondary folding structures and that contain
XX potential hammerhead and hairpin ribozyme cleavage sites were identified
XX by computer analysis. Ribozymes directed against these mRNA sequences
XX were designed and synthesized with modifications that improve their
XX nuclease resistance. The ribozymes are designed to cleave the target
XX sequences and thereby inhibit TNF-alpha expression, making them
XX potentially useful for treating rheumatoid arthritis, septic shock and
XX other inflammatory disorders including psoriasis, as well as for
XX treatment of AIDS. (Updated on 25-MAR-2003 to correct PI field.)
XX
XX Sequence 15 BP; 1 A; 7 C; 2 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 0.7%; Score 13; DB 1; Length 15;
XX Best Local Similarity 92.3%; Pred. No. 4.9e+02;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1231 CAGAGAGCGGCG 1243
XX 13 CAGAGAGCGGCG 1
XX
XX Db
XX
XX RESULT 850
XX AAT52188/c
XX ID AAT52188 standard; RNA; 15 BP.
XX
XX AC AAT52186;
XX
XX DT 25-MAR-2003 (revised)
XX DT 01-APR-1997 (first entry)
XX
XX DE Mouse ICAM hammerhead ribozyme target sequence (nt. position 54).
XX
XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
XX gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
XX intercellular adhesion molecule; rel A; tumour necrosis factor;
XX TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
XX translation; chronic myelogenous leukaemia; CML; cancer;
XX Philadelphia chromosome; inflammation; autoimmune disease;
XX atherosclerosis; myocardial infarction; stroke; revascularis;
XX transplant rejection; rheumatoid arthritis; psoriasis;
XX myocardial ischaemia; Kawasaki disease; septic shock; HIV;
XX human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
XX 58.
XX
XX Mus musculus.
XX
XX OS
XX ID WO9523225-A2.
XX

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XX
XX 31-AUG-1995.
XX
XX PD 23-FEB-1995; 95WO-1B000156.
XX
XX PF 23-FEB-1994; 94US-00201109.
XX
XX PF 29-MAR-1994; 94US-00218934.
XX
XX PF 04-APR-1994; 94US-00222795.
XX
XX PF 07-APR-1994; 94US-00224483.
XX
XX PF 15-APR-1994; 94US-00227958.
XX
XX PF 15-APR-1994; 94US-00228041.
XX
XX PF 18-MAY-1994; 94US-00245736.
XX
XX PF 06-JUL-1994; 94US-00271280.
XX
XX PF 15-AUG-1994; 94US-00291932.
XX
XX PF 16-AUG-1994; 94US-00291433.
XX
XX PF 17-AUG-1994; 94US-00282620.
XX
XX PF 19-AUG-1994; 94US-00293520.
XX
XX PF 02-SEP-1994; 94US-00300000.
XX
XX PF 08-SEP-1994; 94US-00303039.
XX
XX PF 23-SEP-1994; 94US-00311486.
XX
XX PF 28-SEP-1994; 94US-00314397.
XX
XX PF 03-OCT-1994; 94US-00316771.
XX
XX PF 07-OCT-1994; 94US-00319492.
XX
XX PF 11-OCT-1994; 94US-00321993.
XX
XX PF 04-NOV-1994; 94US-00334847.
XX
XX PF 10-NOV-1994; 94US-00337608.
XX
XX PF 28-NOV-1994; 94US-00345516.
XX
XX PF 16-DEC-1994; 94US-00357577.
XX
XX PF 23-DEC-1994; 94US-00363233.
XX
XX PF 30-JAN-1995; 95US-00380734.
XX
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Stinchcomb DT, Chowrira B, Drenzo A, Draper KG, Dudycz LW;
XX Grimm S, Karpeisky A, Kisch K, Matulic-Adamic J, McSwiggen JA;
XX Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
XX Tracz D, Usman N, Wincott FE, Woolf T;
XX
XX WPI; 1995-351090/45.
XX
XX Ribozymes having modified bases and methods for producing them - for use
XX in inhibiting disease related genes.
XX
XX Claim 2; Page 177; 407pp; English.
XX
XX The present sequence represents a preferred target sequence for an
XX enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA at the
XX nucleotide base position indicated in the DE line. Regions of the mRNA
XX that do not form secondary folding structures and that contain potential
XX hammerhead and hairpin ribozyme cleavage sites were identified by
XX computer analysis. Ribozymes directed against these mRNA sequences were
XX designed and synthesized with modifications that improve their nuclease
XX resistance. The ribozymes cleave the ICAM-1 target sequences and thereby
XX inhibit ICAM-1 expression, making them useful for reducing transplant
XX rejection and alleviating symptoms in patients with rheumatoid arthritis,
XX asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to
XX correct PI field.)
XX
XX Sequence 15 BP; 1 A; 3 C; 7 G; 0 T; 4 U; 0 Other;
XX
XX Query Match 0.7%; Score 13; DB 1; Length 15;
XX Best Local Similarity 92.3%; Pred. No. 4.9e+02;
XX Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 506 CCAUCACGAGGCC 518
XX 15 CCATCAGAGGCC 3
XX
XX Db
XX
XX RESULT 851
XX AAT55673/c
XX ID AAT55673 standard; RNA; 15 BP.
XX

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RESULT 848
AAT52257/C
ID AAT52257 standard; RNA; 15 BP.
XX
XX AAT52257;
AC
XX
DT 25-MAR-2003 (revised)
DT 01-APR-1997 (first entry)
XX
DE Mouse ICAM hammerhead ribozyme target sequence (nt. position 738).
XX
XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
KW intercellular adhesion molecule; rel A; tumour necrosis factor;
KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
KW translocation; chronic myelogenous leukaemia; CML; cancer;
KW Philadelphia chromosome; inflammation; autoimmune disease;
KW atherosclerosis; myocardial infarction; stroke; restenosis;
KW transplant rejection; rheumatoid arthritis; psoriasis;
KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;
KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
ss.
XX
OS Mus musculus.
XX
PN WO9523225-A2.
XX
PD 31-AUG-1995.
XX
PF 23-FEB-1995; 95WO-IB000156.
XX
PR 23-FEB-1994; 94US-00201109.
PR 29-MAR-1994; 94US-00218934.
PR 04-APR-1994; 94US-00222795.
PR 07-APR-1994; 94US-00224483.
PR 15-APR-1994; 94US-00227958.
PR 15-APR-1994; 94US-00228041.
PR 18-MAY-1994; 94US-00245736.
PR 06-JUL-1994; 94US-00271280.
PR 15-AUG-1994; 94US-00291932.
PR 16-AUG-1994; 94US-00291433.
PR 17-AUG-1994; 94US-00292620.
PR 19-AUG-1994; 94US-00293520.
PR 02-SEP-1994; 94US-00300000.
PR 08-SEP-1994; 94US-00303039.
PR 23-SEP-1994; 94US-00311486.
PR 23-SEP-1994; 94US-00311749.
PR 28-SEP-1994; 94US-00316771.
PR 03-OCT-1994; 94US-00319492.
PR 07-OCT-1994; 94US-00321932.
PR 11-OCT-1994; 94US-00334847.
PR 04-NOV-1994; 94US-00337608.
PR 10-NOV-1994; 94US-00345516.
PR 28-NOV-1994; 94US-00357577.
PR 16-DEC-1994; 94US-00362233.
PR 23-DEC-1994; 94US-00362233.
PR 30-JAN-1995; 95US-00380734.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
XX Stinchcomb DT, Chowrira B, Dizenzo A, Draper KG, Dudycz LM;
PI Grimm S, Karpelesky A, Kisch K, Matulic-Adamic J, Mcswiggen JA;
PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
PI Tracz D, Usman N, Wincott FB, Woolf T;
XX
XX WPI; 1995-351090/45.
XX
XX Ribozymes having modified bases and methods for producing them - for use
PT in inhibiting disease related genes.
XX
XX Claim 2; Page 177; 407pp; English.
XX

CC The present sequence represents a preferred target sequence for an
CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA at the
CC nucleotide base position indicated in the DE line. Regions of the mRNA
CC that do not form secondary folding structures and that contain potential
CC hammerhead and hairpin ribozyme cleavage sites were identified by
CC computer analysis. Ribozymes directed against these mRNA sequences were
CC designed and synthesised with modifications that improve their nuclease
CC resistance. The ribozymes cleave the ICAM-1 target sequences and thereby
CC inhibit ICAM-1 expression, making them useful for reducing transplant
CC rejection and alleviating symptoms in patients with rheumatoid arthritis,
CC asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to
CC correct PI field.)
XX
SQ Sequence 15 BP; 1 A; 3 C; 7 G; 0 T; 4 U; 0 Other;
XX
QY
Db 506 CCAUCAGAGGCC 518
15 CCAUCAGAGGCC 3
Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 4; 9e+02;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
RESULT 849
AAT56190/C
ID AAT56190 standard; RNA; 15 BP.
XX
XX AAT56190;
AC
XX
DT 25-MAR-2003 (revised)
DT 14-MAY-1997 (first entry)
XX
DE Mouse TNF-a hammerhead ribozyme target sequence (nt position 297).
XX
XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
KW intercellular adhesion molecule; rel A; tumour necrosis factor;
KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
KW translocation; chronic myelogenous leukaemia; CML; cancer;
KW Philadelphia chromosome; inflammation; autoimmune disease;
KW atherosclerosis; myocardial infarction; stroke; restenosis;
KW transplant rejection; rheumatoid arthritis; psoriasis;
KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;
KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
ss.
XX
OS Mus musculus.
XX
PN WO9523225-A2.
XX
PD 31-AUG-1995.
XX
PF 23-FEB-1995; 95WO-IB000156.
XX
PR 23-FEB-1994; 94US-00201109.
PR 29-MAR-1994; 94US-00218934.
PR 04-APR-1994; 94US-00222795.
PR 07-APR-1994; 94US-00224483.
PR 15-APR-1994; 94US-00227958.
PR 18-MAY-1994; 94US-00228041.
PR 06-JUL-1994; 94US-00245736.
PR 15-AUG-1994; 94US-00291932.
PR 16-AUG-1994; 94US-00291433.
PR 17-AUG-1994; 94US-00292620.
PR 19-AUG-1994; 94US-00293520.
PR 02-SEP-1994; 94US-00303039.
PR 08-SEP-1994; 94US-00311486.
PR 23-SEP-1994; 94US-00311749.
PR 28-SEP-1994; 94US-00316771.
PR 03-OCT-1994; 94US-00316771.
XX

XX Brewer GJ, Venta PJ, Yuzbasiyan-Gurkan V;
XX WPI; 1997-435082/40.
XX
XX New oligonucleotide primers for diagnosis of genetic diseases and traits
PT in dogs - amplify specific regions of the genome containing
PT microsatellite repeats, especially for diagnosing copper toxicosis and
PT carriers.
XX
XX Claim 1; Page 18; 40pp; English.
XX
XX This invention relates to novel oligonucleotide PCR primers which may be
CC used to identify markers associated with genetic diseases and traits in
CC dogs, in particular to diagnose genetic diseases that are not
CC phenotypically visible and to identify carriers of recessive diseases. A
CC specific application is diagnosis of copper toxicosis (CT). The invention
CC can also be used to create a genetic map of the canine genome; to
CC generate breed-specific profiles; to establish paternity and to identify
CC dogs from DNA fingerprints. The method provides rapid analysis of the
CC target sequences from only a small sample of DNA. Diagnosis can be done
CC at any time in the dog's life. The present sequence is that of a PCR
CC primer of the invention.
XX
SQ Sequence 21 BP; 0 A; 8 C; 2 G; 11 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 13.4; DB 1; Length 21;
Best Local Similarity 53.3%; Pred. No. 7.9e+02;
Matches 8; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
QY 1358 CUCUACUCUCUCUCU 1372
DB 7 CTCCTGCTCTGCTCT 21
XX
RESULT 846
ABI97828
ID ABI97828 standard; DNA; 37 BP.
XX
XX ABI97828;
XX
DT 18-FEB-2002 (first entry)
XX
DE Non-endogenous human GPCR 3' primer SEQ ID NO: 280.
XX
XX Human; G protein-coupled receptor; GPCR; non-endogenous; mutant;
KW constitutively activated GPCR; agonist; disease; PCR primer; ss.
XX
XX Homo sapiens.
OS Synthetic.
XX
PN WO200177172-A2.
XX
PD 18-OCT-2001.
XX
PP 05-APR-2001; 2001WO-US011098.
XX
PR 07-APR-2000; 2000US-0195747P.
XX
PA (AREN-) ARENA PHARM INC.
XX
PI Lehmann-Brinema K, Liaw CW, Lin I;
XX
XX WPI; 2001-648759/74.
XX
XX Identifying agonists of G protein-coupled receptors (GPCRs) for use in
PT disease treatment, comprises contacting candidate compounds with versions
PT of GPCRs.
XX
XX Example 2; Page 52; 394pp; English.
XX
XX The invention relates to G protein-coupled receptors (GPCRs) for which
CC the endogenous ligand has been identified. Non-endogenous constitutively
CC activated versions of known GPCRs are used in the invention for the
CC direct identification of candidate compounds as receptor agonists,
CC inverse agonists or partial agonists. Such agonists are useful as
CC therapeutic agents for diseases or disorders associated with GPCRs. The
CC present sequence is a primer used to prepare a non-endogenous version of
CC a known GPCR in an example illustrating the invention
XX
SQ Sequence 37 BP; 14 A; 8 C; 12 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 13.2; DB 1; Length 37;
Best Local Similarity 38.9%; Pred. No. 9.3e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;
QY 204 GGUUCUACGCGUUCUU 221
DB 10 GGTCTGTTTCGCTTCTT 27
XX
RESULT 847
ABI97827/C
ID ABI97827 standard; DNA; 37 BP.
XX
XX ABI97827;
XX
DT 18-FEB-2002 (first entry)
XX
DE Non-endogenous human GPCR 5' primer SEQ ID NO: 279.
XX
XX Human; G protein-coupled receptor; GPCR; non-endogenous; mutant;
KW constitutively activated GPCR; agonist; disease; PCR primer; ss.
XX
XX Homo sapiens.
OS Synthetic.
XX
PN WO200177172-A2.
XX
PD 18-OCT-2001.
XX
PP 05-APR-2001; 2001WO-US011098.
XX
PR 07-APR-2000; 2000US-0195747P.
XX
PA (AREN-) ARENA PHARM INC.
XX
PI Lehmann-Brinema K, Liaw CW, Lin I;
XX
XX WPI; 2001-648759/74.
XX
XX Identifying agonists of G protein-coupled receptors (GPCRs) for use in
PT disease treatment, comprises contacting candidate compounds with versions
PT of GPCRs.
XX
XX Example 2; Page 52; 394pp; English.
XX
XX The invention relates to G protein-coupled receptors (GPCRs) for which
CC the endogenous ligand has been identified. Non-endogenous constitutively
CC activated versions of known GPCRs are used in the invention for the
CC direct identification of candidate compounds as receptor agonists,
CC inverse agonists or partial agonists. Such agonists are useful as
CC therapeutic agents for diseases or disorders associated with GPCRs. The
CC present sequence is a primer used to prepare a non-endogenous version of
CC a known GPCR in an example illustrating the invention
XX
SQ Sequence 37 BP; 14 A; 8 C; 12 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 13.2; DB 1; Length 37;
Best Local Similarity 38.9%; Pred. No. 9.3e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;
QY 204 GGUUCUACGCGUUCUU 221
DB 28 GGTCTGTTTCGCTTCTT 11

CC activated versions of known GPCRs are used in the invention for the
CC direct identification of candidate compounds as receptor agonists,
CC inverse agonists or partial agonists. Such agonists are useful as
CC therapeutic agents for diseases or disorders associated with GPCRs. The
CC present sequence is a primer used to prepare a non-endogenous version of
CC a known GPCR in an example illustrating the invention
XX
SQ Sequence 37 BP; 14 A; 8 C; 12 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 13.2; DB 1; Length 37;
Best Local Similarity 38.9%; Pred. No. 9.3e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;
QY 204 GGUUCUACGCGUUCUU 221
DB 28 GGTCTGTTTCGCTTCTT 11

Best Local Similarity 93.3%; Pred. No. 5.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 815 GGACAGAGCGACAGAGA 829
DB 1 GGAGAGAGCGACAGAGA 15

RESULT 843

ACC78169/c
ID ACC78169 standard; DNA; 16 BP.

AC C78169;

DT 18-AUG-2003 (first entry)

DE Human GCP-2 SNPs amplifying antisense primer.

KW GCP-2; granulocyte chemotactic peptide-2; single nucleotide polymorphism;
KW antiinflammatory; cytostatic; antipsoriatic; antirheumatic; SNP; human;
KW antiarthritic; neuroprotective; gene therapy; genotyping; PCR; primer;
ss.

OS Homo sapiens.

PN EPI312614-Al.

PD 21-MAY-2003.

PF 16-NOV-2001; 2001EP-00402950.

PR 16-NOV-2001; 2001EP-00402950.

PA (GENO-) GENODYSSEY.

PI Bscary J;

DR WPI; 2003-443129/42.

PT New polynucleotides and polypeptides of the Granulocyte Chemotactic
PT Peptide-2 gene, useful for preparing a medication for the prevention or
PT treatment of disorders involving the immune system, e.g. inflammation,
PT psoriasis or cancer.

PS Example 1; Page 23; 29pp; English.

CC The invention relates to polynucleotides derived from the Granulocyte
CC Chemotactic Peptide-2 (GCP-2) gene, and comprising new single nucleotide
CC polymorphisms (SNPs) where the SNPs are 1254-1255 Ins (C), g563c, c574g,
CC c646g, g742t, a1026t or g1069c. The polynucleotide, polypeptide, vector,
CC host cell and/or antibody are useful for preparing a medication for the
CC prevention or treatment of diseases or disorders involving the immune
CC system, inflammation, tumor cell invasion, psoriasis, rheumatoid
CC arthritis, chronic polyarthritis, myelodysplastic syndrome, or carcinoma
CC (e.g. hepatocellular carcinoma or osteosarcoma). The GCP-2 protein is
CC also used for preparing a medication against a disease or disorder caused
CC by a GCP-2 variant. Sequences ACC78168-169 represent PCR primers for
CC amplifying the human GCP-2 SNPs g563c, c574g, c646g and g742t

XX Sequence 16 BP; 6 A; 4 C; 6 G; 0 T; 0 U; 0 Other;

QY Query Match 0.8%; Score 13.4; DB 1; Length 16;

Best Local Similarity 60.0%; Pred. No. 5.1e+02;
Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 592 GUCCUUGGCGCCU 606

DB 16 GTCCCTCGGCGCTCT 2

RESULT 844

AAC66362/c
ID AAC66362 standard; DNA; 18 BP.

XX AAC66362;

DT 22-FEB-2001 (first entry)

DE PCR primer used method to detect micro-organisms.

KW Detection; microorganism; environmental decontamination; decomposition;
KW organic halogen compound, PCR primer; ss.

OS Unidentified.

PN JP2000253880-A.

PD 19-SEP-2000.

PF 10-MAR-1999; 99JP-00062469.

PR 10-MAR-1999; 99JP-00062469.

PA (TOXE) TOSHIBA KK.

DR WPI; 2000-608063/58.

PT A method for detection of useful microorganisms and a method for
PT environmental decontamination with them.

PS Example 1; Page 7; 8pp; Japanese.

CC Oligonucleotides AAC66355 - AAC66360 are used in a method for the
CC detection of microorganisms. Micro-organisms are isolated by the presence
CC of the six nucleotide sequences. The micro-organisms isolated by this
CC method are used for environmental decontamination and the decomposition
CC of organic halogen compounds. The present sequence represents a PCR
CC primer used in an example illustrating the method of the invention

XX Sequence 18 BP; 4 A; 7 C; 3 G; 4 T; 0 U; 0 Other;

QY Query Match 0.8%; Score 13.4; DB 1; Length 18;

Best Local Similarity 66.7%; Pred. No. 6.3e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 189 UACCGUCUGGCAAGU 203

DB 15 TACCGTCTGGAANGT 1

RESULT 845

ADG77919
ID ADG77919 standard; DNA; 21 BP.

AC ADG77919;

DT 11-MAR-2004 (first entry)

DE Canine disease marker-related PCR primer 763.

KW genetic disease; genetic trait; dog; carrier of recessive disease;
KW copper toxicosis; CT; canine genome map; breed-specific profile;
KW DNA fingerprint; dog identification; PCR; primer; ss.

OS Canis familiaris.

PN WO9731011-Al.

PD 28-AUG-1997.

PF 18-FEB-1997; 97WO-US002396.

PR 22-FEB-1996; 96US-0012060P.

PA (UNMI) UNIV MICHIGAN.
PA (UNMS) UNIV MICHIGAN STATE.

PS Example 1; SEQ ID NO 121; 65pp; English.

XX The invention relates to a method of remodeling a dendrite comprising

CC transfecting a dendrite with an RNA comprising at least one intron, where

CC the dendrite comprises at least one component of a spliceosome and

CC further where the component of a spliceosome is capable of splicing an

CC RNA, allowing the RNA comprising at least one intron to be translated by the

CC spliceosome components and allowing the spliced RNA to be translated in

CC the dendrite, where the dendrite is thus remodeled as a consequence of

CC the translation. The invention also relates to a method of remodeling a

CC dendrite interaction, a method of remodeling a synaptic network

CC comprising interaction with at least one dendrite, methods of splicing an

CC RNA and methods of translating an RNA. The splicing and translating

CC methods can alternatively be applied to an isolated synapsonosome

CC instead of the isolated dendrite. The methods are useful for remodeling a

CC dendrite, preferably for remodeling a synaptic network. This sequence

CC represents DNA encoding dendritically-spliced RNA used in the method of

CC the invention.

XX

XX Sequence 15 BP; 0 A; 7 C; 1 G; 7 T; 0 U; 0 Other;

SQ

Query Match 0.8%; Score 13.4; DB 1; Length 15;

Best Local Similarity 93.3%; Pred. No. 4.5e+02;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 819 AGAGCGAGAGACAGA 833

DB 15 AGAGCGAGAGAGAGA 1

RESULT 839

AAK57943/C

ID AAK57943 standard; DNA; 16 BP.

AC AAK57943;

XX

DT 15-JUL-1999 (first entry)

XX

DE PCR primer for G. oxydans D-sorbitol dehydrogenase coding sequence.

XX

XX D-sorbitol dehydrogenase; L-sorbose; 2-keto-L-gulononic acid; precursor;

KW L-ascorbic acid production; PCR primer; ss.

XX

OS Synthetic.

OS Gluconobacter oxydans.

XX

PN WO9920763-A1.

PD 29-APR-1999.

XX

PF 13-OCT-1998; 98WO-JP004612.

XX

PR 17-OCT-1997; 97JP-00285280.

XX

PA (FUJII) FUJISAWA PHARM CO LTD.

PI Saito Y, Ishii Y, Noguchi Y, Yoshikawa K, Soeda S;

DR WPI; 1999-302741/25.

XX

PT Gene group for D-sorbitol dehydrogenase, useful for simple large-scale

PT production of L-sorbose or 2-keto-L-gulononic acid as precursor for L-

PT ascorbic acid.

XX

XX Example 5; Page 26; 83pp; Japanese.

PS

XX This sequence represents a PCR primer for DNA encoding the D-sorbitol

CC dehydrogenase of the invention. Cells transformed with a vector

CC containing DNA encoding the dehydrogenase can be used to produce L-

CC sorbose or 2-keto-L-gulononic acid as precursor for simple large-scale L-

CC ascorbic acid production

XX

SQ Sequence 16 BP; 4 A; 5 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.4; DB 1; Length 16;

Best Local Similarity 66.7%; Pred. No. 5.1e+02;

Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 227 GCAUCCUGGCCUUG 241

DB 15 GCATCATGGCCTTG 1

RESULT 840

ADU85273/C

ID ADU85273 standard; RNA; 16 BP.

XX

AC ADU85273;

XX

DT 10-FEB-2005 (first entry)

XX

DE Human MetAP-2 G-cleaver ribozyme sequence #10.

XX

KW Enzymatic nucleic acid molecule; gene expression; down regulation;

KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;

KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;

KW c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;

KW hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver;

KW amberyzyme; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;

KW diabetes; obesity; cardiac disease; heart disease; age-related disease;

KW hepatitis B infection; hepatocellular carcinoma; genetic drift; human;

ss.

XX

OS Homo sapiens.

XX

PN WO200116312-A2.

XX

PD 08-MAR-2001.

XX

PF 30-AUG-2000; 2000WO-US023998.

XX

PR 31-AUG-1999; 99US-0151713P.

PR 27-SEP-1999; 99US-00406643.

PR 27-SEP-1999; 99US-0156236P.

PR 27-SEP-1999; 99US-0156467P.

PR 08-NOV-1999; 99US-00436430.

PR 06-DEC-1999; 99US-0169100P.

PR 29-DEC-1999; 99US-00474432.

PR 29-DEC-1999; 99US-0173612P.

PR 30-DEC-1999; 99US-00476387.

PR 04-FEB-2000; 2000US-00498824.

PR 20-MAR-2000; 2000US-00531025.

PR 14-APR-2000; 2000US-0197769P.

PR 23-MAY-2000; 2000US-00578223.

PR 09-AUG-2000; 2000US-00636385.

XX

PA (RIBO-) RIBOZYME PHARM INC.

XX

PI Meswigen J, Usman N, Blatt L, Beigelman L, Burgin A;

PI Karpelsky A, Matulic-Adamic J, Svedler D, Draper K, Chowrira B;

PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;

XX

DR WPI; 2001-244406/25.

XX

PT Enzymatic nucleic acid molecules able to cleave separate RNA molecules

PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,

PT obesity and heart disease.

XX

XX Example 3; Page 260; 717pp; English.

PS

XX The present invention relates to the use of enzymatic nucleic acid

CC molecules (e.g. ribozymes) to modulate gene expression. The invention

CC also methods for their use to down regulate or inhibit the expression of

CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine

CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C

vector of (3); (6) a method of treating a patient having a condition associated with HCV infection, by contacting cells of the patient with the nucleic acid molecule, and further employing one or more drug therapies; (7) a method for inhibiting HCV replication in a mammalian cell by administering the novel enzymatic nucleic acid; and (8) a method of cleaving a separate RNA molecule by contacting the novel enzymatic nucleic acid with the separate RNA molecule. The enzymatic nucleic acid is useful for modulating the expression and/or replication of hepatitis C virus (HCV), and for inhibiting the expression of HCV minus strand. The nucleic acid may also be used to treat or prevent the occurrence of a disease state in a patient. The present sequence represents an HCV hammerhead ribozyme target substrate sequence which is used in the exemplification of the present invention.

Query Match	0.8;	Score 13.4;	DB 1;	Length 15;
Best Local Similarity	93.3%;	Pred: No. 4.5e+02;		
Matches 14; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0

QY 645 UGUGCCUCCGGAGA 659
|||||
Db 1 UGUGACUCCGGAGA 15

RESULT 837
AEB50501
ID AEB50501 standard; DNA; 15 BP.

AC AEB50501;

DT 06-OCT-2005 (first entry)

DE Human myosin heavy chain transcript, SEQ ID NO 269.

KM genetic marker; heart disease; cardiast; myocardial infarction; angina; KM antianginal; myocarditis; congestive heart failure; cardiovascular-gen.; KM algorithm; ds; myosin heavy chain; SNP; single nucleotide polymorphism.

OS Homo sapiens.

PN WO2005069724-A2.

PD 04-AUG-2005

PF 27-JAN-2005; 2005WO-IB001306.

PR 27-JAN-2004; 2004US-0539128P.

PR 22-OCT-2004; 2004US-0620916P.

PR 27-OCT-2004; 2004US-0622320P.

PR 17-NOV-2004; 2004US-0628134P.

PR 26-NOV-2004; 2004US-0630559P.

XX

XX

PI Ayalon-Soffer M, Cojocaru GS

XX

28

PT homologous to TRIC-HU

PT and myocarditis.

PS Example 2; SEQ ID NO 269; 822pp; English.

PS Example 2; SEQ ID NO 269; 822pp; English.

CC The present invention relates to a chimeric polypeptide (I) useful as a
CC biomarker for cardiac disease chosen from a chimeric polypeptide of SEQ
CC ID Nos. 301, 302, 303 or 304, comprising a first amino acid sequence
CC being at least 90% homologous to amino acids 1-124, 1-6, 1-36 or 1-8 of
CC TRIC HUMAN, and a second amino acid sequence at least 95% homologous to a
CC polypeptide sequence corresponding to amino acids 125-137, 35-209, 37-86
CC or 9-13 of SEQ ID Nos. 301, 302, 303 or 304, where the first and second
CC amino acid sequence are contiguous and in a sequential order. (I) also
CC comprises an isolated polypeptide comprising a protein variant of SEQ ID
CC Nos. 301-304, or the sequence of tropoin I variant (SEQ ID Nos. 325, 354
CC 356 or 387). (I) can be an isolated polypeptide for a tail of SEQ ID No.
CC 301, 303 or 304, and an isolated chimeric polypeptide encoding for an
CC edge portion of SEQ ID No. 302, where at least two amino acids comprise
CC AK. Also claimed is an isolated polynucleotide (II) comprising a
CC transcript or the DNA sequence of Histioponin T7 PRESENT, (SEQ ID Nos. 22-
CC 25, 353 or 386), or a segment chosen from a SEQ ID Nos. 130-149; an
CC isolated oligonucleotide, comprising an amplicon (III) chosen from a
CC sequence of humntropia seg1 amplicon, humntropia seg2 amplicon, amplicon
CC humntropia seg33-24-25 (SEQ ID No. 379, 382 or 385); a primer pair (IV),
CC capable of amplifying (III); an antibody (V); a kit (VI) for detecting (I)
CC heart disorders, by detecting overexpression of a splice variant of (I)
CC or (II); detecting (MI) heart disorders, by detecting overexpression of a
CC splice variant of (I) or (II); and a biomarker (VII) capable of detecting
CC heart disorders. The heart disorder is a myocardial infarct, angina
CC pectoris, cardiomyopathy, myocarditis, congestive heart failure.
CC Identification of differentially expressed gene products and ESTs was
CC carried out by algorithm method and computer analysis. Splice variants
CC were identified by using the LEADS software package. The present sequence
CC is a human myosin heavy chain protein transcript.

Query Match	0.8%	Score 13.4	DB 1	Length 15
Best Local Similarity	80.0%	Pred. 4.5e+02		
Matches 12; Conservative		2; Mismatches 1	Indels 0	Gaps 0

QY	1030	GCCUCCCTGGAGAAC	1044
		:	
Db	1	GCCTCCCTGGAGCAC	15

RESULT 838
AED62264/c
ID AED62264 standard; DNA; 15 BP.

AC AED62264

DT 29-DEC-2005 (first entry)

DE DNA encoding dendritically-spliced RNA #103.

Splicing; dendrite; translation; ss.

Unidentified

PN WO2005100559-A1.

PD 27-OCT-2005.

PF 07-APR-2005; 2005WO-US011637.

PR 07-APR-2004; 2004US-0560039P.

PA (TYPE-) UNIV PENNSYLVANIA.

PI Eberwine J, Miyashiro K, Glanzer J,

DR WPI; 2005-725946/74.

Remodeling a dendrite, e.g. a synaptic network of the dendrite, comprises transcribing a dendrite with an RNA comprising at least one intron, where the dendrite comprises a spliceosome that is capable of splicing an RNA.

CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme,
CC zinzyme, and/or DNAzyme motifs. The methods of the invention are useful
CC for treating cancer, in particular breast cancer, Alzheimer's disease,
CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
CC diseases, hepatitis B infections, and hepatitis and hepatocellular
CC carcinoma. The enzymatic nucleic acid molecules can also be used as
CC diagnostic tools to examine genetic drift and mutations within diseased
CC cells and to detect the presence of specific RNA in a cell. The present
CC sequence represents a substrate/target sequence for an anti-HER2 NCH
CC ribozyme used in the examples of the present invention. Note: Some SEQ ID
CC Nos are repeated more than once in the specification, but these have
CC different sequences associated with them.
XX
SQ Sequence 15 BP; 6 A; 4 C; 4 G; 0 T; 1 U; 0 Other;
Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 4.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 945 CACACCAAGAGCG 959
DB 1 CACACCAAGAGCG 15
RESULT 835
ABX01143
ID ABX01143 standard; RNA; 15 BP.
XX
AC ABX01143;
XX
DT 23-DEC-2002 (first entry)
XX
DE Hepatitis C virus substrate #925 for HCV hammerhead ribozyme #925.
XX
KM Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection;
XX HCV ribozyme; HCV expression; HCV replication; cirrhosis; liver failure;
XX liver failure; hepatocellular carcinoma; HCV infection; drug therapy;
XX type I interferon; interferon alpha; interferon beta; cytostatic;
XX interferon gamma; consensus interferon; hepatotropic; antiinflammatory;
XX substrate; hammerhead ribozyme; HH ribozyme; ss.
XX
OS Hepatitis C virus.
XX
PN US2002082225-A1.
XX
PD 27-JUN-2002.
XX
PF 23-MAR-1999; 99US-00274553.
XX
PR 23-MAR-1999; 99US-00274553.
XX
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGEN J A.
PA (ROBE/) ROBERTS B.
PA (PAVO/) PAVO P A.
PA (MACE/) MACEJACK D.
XX
PI Blatt L, Mcswigen JA, Roberts B, Pavco PA, Macejack D;
XX
DR WPI; 2002-617759/66.
XX
PT New ribozymes targeting RNA derived from hepatitis C virus inhibit viral
PT replication and are useful to treat hepatitis C virus infections and
PT cirrhosis, liver failure or hepatocellular carcinoma.
XX
PS Claim 1; Page 47; 80pp; English.
XX
CC The present invention relates to enzymatic nucleic acids which
CC specifically cleave RNA derived from hepatitis C virus (HCV). The
CC enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin
CC (HP) motif where the binding arms comprise sequences complementary to one
CC of the substrate sequences defined in the specification. The HCV
CC ribozymes are useful for modulating the expression and/or replication of

CC HCV. They can be used to treat cirrhosis, liver failure and/or
CC hepatocellular carcinoma. The HCV ribozymes are also useful for treating
CC a condition associated with HCV infection in conjunction with one or more
CC other drug therapies, particularly type I interferon, especially
CC interferon alpha, beta or gamma or consensus interferon. The present
CC sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note:
CC Some of the sequence data for this patent did not form part of the
CC printed specification. The complete sequence data for this patent was
CC obtained in electronic format directly from the USPTO web site at
CC seqdata.uspto.gov/patids/entry.html
XX
SQ Sequence 15 BP; 3 A; 3 C; 6 G; 0 T; 3 U; 0 Other;
Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 4.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 645 UGUGCCUCCGAGAGA 659
DB 1 UGUGCCUCCGAGAGA 15
RESULT 836
AEB75851
ID AEB75851 standard; RNA; 15 BP.
XX
AC AEB75851;
XX
DT 22-SEP-2005 (first entry)
XX
DE Hepatitis C virus hammerhead ribozyme substrate sequence.
XX
KM ribozyme; enzymatic nucleic acid molecule; hepatitis C virus infection;
XX antiviral; gene therapy; substrate; ss.
XX
OS Hepatitis C virus.
XX
PN US2002013458-A1.
XX
PD 31-JAN-2002.
XX
PF 15-FEB-2000; 2000US-00504231.
XX
PR 23-MAR-1999; 99US-00274553.
XX
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGEN J A.
PA (ROBE/) ROBERTS B.
PA (PAVO/) PAVO P A.
PA (MACE/) MACEJACK D.
XX
PI Blatt L, Mcswigen JA, Roberts B, Pavo PA, Macejack D;
XX
DR WPI; 2002-215899/27.
XX
PT New enzymatic nucleic acid molecule, which specifically cleaves minus
PT strand RNA derived from hepatitis C virus, useful for modulating the
PT expression and/or replication of hepatitis C virus.
XX
PS Example 1; Page 37; 65pp; English.
XX
CC The invention relates to an enzymatic nucleic acid molecule which
CC specifically cleaves minus strand RNA derived from hepatitis C virus
CC (HCV). The binding arms of the molecule comprise ribozyme sequences. The
CC molecule is selected from inozyme, G-cleaver, DNAzyme, amberzyme, and
CC zinzyme motifs. Also described: (1) a pharmaceutical composition
CC comprising the novel enzymatic nucleic acid; (2) a mammalian cell
CC including the novel enzymatic nucleic acid; (3) an expression vector
CC comprising a nucleic acid sequence encoding at least one enzymatic
CC nucleic acid molecule, in a manner, which allows expression of that
CC molecule; (4) a mammalian cell including an expression vector of (3); (5)
CC methods for treating cirrhosis, liver failure or hepatocellular carcinoma
CC by administering to a patient the novel enzymatic nucleic acid or the

KM MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KW c-erb2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
 KW hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inosyme; G-cleaver;
 KW amberyzyme; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KW hepatitis B infection; hepatocellular carcinoma; genetic drift; human;
 KW ss.
 OS Homo sapiens.
 XX WO200116312-A2.
 XX PD 08-MAR-2001.
 XX PF 30-AUG-2000; 2000MO-US023998.
 XX PR 31-AUG-1999; 99US-0151713P.
 XX PR 27-SEP-1999; 99US-00406643.
 XX PR 27-SEP-1999; 99US-0156236P.
 XX PR 27-SEP-1999; 99US-0156467P.
 XX PR 08-NOV-1999; 99US-00436430.
 XX PR 06-DEC-1999; 99US-0169100P.
 XX PR 29-DEC-1999; 99US-00474432.
 XX PR 29-DEC-1999; 99US-0173612P.
 XX PR 30-DEC-1999; 99US-00476387.
 XX PR 04-FEB-2000; 2000US-00498824.
 XX PR 20-MAR-2000; 2000US-00531025.
 XX PR 14-APR-2000; 2000US-0197769P.
 XX PR 23-MAY-2000; 2000US-00578223.
 XX PR 09-AUG-2000; 2000US-00636385.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PI McSwiggen J, Usman N, Blatt L, Beigelman L, Burgin A,
 PI Karpetsky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B,
 PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
 XX WPI; 2001-244406/25.
 XX DR Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 XX PS Example 11; Page 467; 717pp; English.
 CC The present invention relates to the use of enzymatic nucleic acid
 CC molecules (e.g. ribozymes) to modulate gene expression. The invention
 CC also methods for their use to down regulate or inhibit the expression of
 CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
 CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
 CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
 CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
 CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
 CC nucleic acid molecules used to inhibit the expression of the said genes
 CC include hammerhead (HH), hairpin, NCH (inosyme), G-cleaver, amberyzyme,
 CC zinzyme, and/or DNAzyme motifs. The methods of the invention are useful
 CC for treating cancer, in particular breast cancer, Alzheimer's disease,
 CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
 CC diseases, hepatitis B infections, and hepatitis and hepatocellular
 CC carcinoma. The enzymatic nucleic acid molecules can also be used as
 CC diagnostic tools to examine genetic drift and mutations within diseased
 CC cells and to detect the presence of specific RNA in a cell. The present
 CC sequence represents a substrate sequence for an anti-Her2 hammerhead
 CC ribozyme used in the examples of the present invention. Note: Some SEQ ID
 CC Nos are repeated more than once in the specification, but these have
 CC different sequences associated with them.
 XX SO Sequence 15 BP; 1 A; 2 C; 6 G; 0 T; 6 U; 0 Other;

QY 1624 GUGUGCAUGCUCUG 1638
 DB 1 GUGUGCAUGCUCUG 15
 RESULT 834
 ADV35913
 ID ADV35913 standard; RNA; 15 BP.
 XX AC ADV35913;
 XX DT 10-FEB-2005 (first entry)
 XX DE Human anti-HER2 NCH ribozyme substrate sequence #356.
 XX KW Enzymatic nucleic acid molecule; gene expression; down regulation;
 KW protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
 KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KW c-erb2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
 KW hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inosyme; G-cleaver;
 KW amberyzyme; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KW hepatitis B infection; hepatocellular carcinoma; genetic drift; human;
 KW ss.
 OS Homo sapiens.
 XX WO200116312-A2.
 XX PD 08-MAR-2001.
 XX PF 30-AUG-2000; 2000MO-US023998.
 XX PR 31-AUG-1999; 99US-0151713P.
 XX PR 27-SEP-1999; 99US-00406643.
 XX PR 27-SEP-1999; 99US-0156236P.
 XX PR 27-SEP-1999; 99US-0156467P.
 XX PR 08-NOV-1999; 99US-00436430.
 XX PR 06-DEC-1999; 99US-0169100P.
 XX PR 29-DEC-1999; 99US-00474432.
 XX PR 29-DEC-1999; 99US-0173612P.
 XX PR 30-DEC-1999; 99US-00476387.
 XX PR 04-FEB-2000; 2000US-00498824.
 XX PR 20-MAR-2000; 2000US-00531025.
 XX PR 14-APR-2000; 2000US-0197769P.
 XX PR 23-MAY-2000; 2000US-00578223.
 XX PR 09-AUG-2000; 2000US-00636385.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PI McSwiggen J, Usman N, Blatt L, Beigelman L, Burgin A,
 PI Karpetsky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B,
 PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
 XX WPI; 2001-244406/25.
 XX DR Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 XX PS Example 7; Page 478; 717pp; English.
 CC The present invention relates to the use of enzymatic nucleic acid
 CC molecules (e.g. ribozymes) to modulate gene expression. The invention
 CC also methods for their use to down regulate or inhibit the expression of
 CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
 CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
 CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
 CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
 CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
 CC nucleic acid molecules used to inhibit the expression of the said genes

	RESULT 831	
AAA91451	ID	AAA91451 standard; DNA; 15 BP.
XX	AC	AAA91451;
XX	DT	12-JUL-2001 (first entry)
XX	DE	Human CHRM5 gene, allele specific oligonucleotide #21.
XX	KW	CHRM5; human; cholinergic receptor muscarinic 5; polymorphic variant;
XX	KM	genotyping; haplotype; gene therapy; ss.
XX	OS	Homo sapiens.
XX	PX	WO200128995-A2.
XX	PD	26-APR-2001.
XX	PF	19-OCT-2000; 2000WO-US029071.
XX	PR	21-OCT-1999; 99US-0160647P.
XX	PA	(GENA-) GENAISSANCE PHARM INC.
XX	PI	Chew A, Choi JY, Nandabalan K, Stephens JC;
XX	DR	WPI; 2001-300313/31.
XX	PT	Isolated polynucleotide encoding the cholinergic receptor, muscarinic 5
XX	PT	(CHRM5), used to genotype/haplotype the CHRM5 gene, and to identify an
XX	PT	association between a trait and a polymorphism, comprises novel
XX	PS	polymorphisms.
XX	PS	Claim 15; Page 46; 53pp; English.
CC	XX	This sequence is a the human cholinergic receptor, muscarinic 5 (CHRM5)
CC	CC	gene, allele specific oligonucleotide. The invention relates to a
CC	CC	polymorphic variant of the CHRM5 gene sequence. The polymorphic sequence
CC	CC	is useful to genotype or haplotype the CHRM5 gene, to predict a haplotype
CC	CC	pair for the CHRM5 gene, and for identifying an association between a
CC	CC	trait (such as a clinical response to a drug targeting CHRM5). It is also
CC	CC	useful in gene therapy in patients who lack the CHRM5 isogene or have
CC	CC	only one copy of it, and in assays to measure the binding affinities of
CC	CC	one or more candidate drugs targeting CHRM5. The DNA sequence is used in
CC	CC	the treatment of disorders affected by expression or function of a novel
CC	CC	CHRM5 isogene of the invention. The protein encoded by the CHRM5 variant
CC	CC	is useful to identify drugs which target the CHRM5 polymorphic variant
CC	CC	protein. Antibodies against the protein can be used to neutralise the
CC	CC	CHRM5 isoform actively expressed in an individual, and is useful in
CC	CC	detection of CHRM5 in immunocytochemical, immunohistochemical and
CC	CC	immunofluorescence. A composition containing a genotyping oligonucleotide
CC	CC	for detecting a polymorphism in the CHRM5 gene is used to detect novel
CC	CC	CHRM5 polymorphisms of the invention
XX	SQ	Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
OY	Query Match	0.8%; Score 13.4; DB 1; Length 15;
Dn	Best Local Similarity	80.0%; Pred. No. 4.5e+02;
	Matches 12; Conservative	2; Mismatches 1; Indels 0; Gaps 0
		446 ACGUAGCCAGCAUG 460
		:
		1 ACGTGCCGACATG 15
		:
RESULT 832		AAA91454/C
ID	AAA91454	standard; DNA; 15 BP.
XX	AC	AAA91454;
XX	DT	12-JUL-2001 (first entry)
XX	DE	Human CHRM5 gene, allele specific oligonucleotide #21.
XX	KW	CHRM5; human; cholinergic receptor muscarinic 5; polymorphic variant;
XX	KM	genotyping; haplotype; gene therapy; ss.
XX	OS	Homo sapiens.
XX	PX	WO200128995-A2.
XX	PD	26-APR-2001.
XX	PF	19-OCT-2000; 2000WO-US029071.
XX	PR	21-OCT-1999; 99US-0160647P.
XX	PA	(GENA-) GENAISSANCE PHARM INC.
XX	PI	Chew A, Choi JY, Nandabalan K, Stephens JC;
XX	DR	WPI; 2001-300313/31.
XX	PT	Isolated polynucleotide encoding the cholinergic receptor, muscarinic 5
XX	PT	(CHRM5), used to genotype/haplotype the CHRM5 gene, and to identify an
XX	PT	association between a trait and a polymorphism, comprises novel
XX	PS	polymorphisms.
XX	PS	Claim 15; Page 46; 53pp; English.
CC	XX	This sequence is a the human cholinergic receptor, muscarinic 5 (CHRM5)
CC	CC	gene, allele specific oligonucleotide. The invention relates to a
CC	CC	polymorphic variant of the CHRM5 gene sequence. The polymorphic sequence
CC	CC	is useful to genotype or haplotype the CHRM5 gene, to predict a haplotype
CC	CC	pair for the CHRM5 gene, and for identifying an association between a
CC	CC	trait (such as a clinical response to a drug targeting CHRM5). It is also
CC	CC	useful in gene therapy in patients who lack the CHRM5 isogene or have
CC	CC	only one copy of it, and in assays to measure the binding affinities of
CC	CC	one or more candidate drugs targeting CHRM5. The DNA sequence is used in
CC	CC	the treatment of disorders affected by expression or function of a novel
CC	CC	CHRM5 isogene of the invention. The protein encoded by the CHRM5 variant
CC	CC	is useful to identify drugs which target the CHRM5 polymorphic variant
CC	CC	protein. Antibodies against the protein can be used to neutralise the
CC	CC	CHRM5 isoform actively expressed in an individual, and is useful in
CC	CC	detection of CHRM5 in immunocytochemical, immunohistochemical and
CC	CC	immunofluorescence. A composition containing a genotyping oligonucleotide
CC	CC	for detecting a polymorphism in the CHRM5 gene is used to detect novel
CC	CC	CHRM5 polymorphisms of the invention
XX	SQ	Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
OY	Query Match	0.8%; Score 13.4; DB 1; Length 15;
Dn	Best Local Similarity	80.0%; Pred. No. 4.5e+02;
	Matches 12; Conservative	2; Mismatches 1; Indels 0; Gaps 0
		446 ACGUAGCCAGCAUG 460
		:
		1 ACGTGCCGACATG 15
		:

XX	12-JUL-2001	(first entry)
DT		
XX	Human CHRM5 gene, allele specific oligonucleotide #24.	
DE		
XX	CHRM5; human; cholinergic receptor muscarinic 5; polymorphic variant;	
KM	genotyping; haplotype; gene therapy; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200128995-A2.	
PM		
PD	26-APR-2001.	
PF	19-OCT-2000; 2000WO-US029071.	
PR	21-OCT-1999; 99US-0160647P.	
XX		
PA	(GENA-) GENAISSANCE PHARM INC.	
XX		
PI	Chew A, Choi JY, Nandabalan K, Stephens JC;	
DR	WPI; 2001-300313/31.	
XX		
PT	Isolated polynucleotide encoding the cholinergic receptor, muscarinic 5	
PT	(CHRM5), used to genotype/haplotype the CHRM5 gene, and to identify an	
PT	association between a trait and a polymorphism, comprises novel	
PT	polymorphisms.	
PS		
XX	Claim 15; Page 46; 53pp: English.	
XX		
CC	This sequence is a the human cholinergic receptor, muscarinic 5 (CHRM5)	
CC	gene, allele specific oligonucleotide. The invention relates to a	
CC	polymorphic variant of the CHRM5 gene sequence. The polymorphic sequence	
CC	is useful to genotype or haplotype the CHRM5 gene, to predict a haplotype	
CC	pair for the CHRM5 gene, and for identifying an association between a	
CC	trait (such as a clinical response to a drug targeting CHRM5). It is also	
CC	useful in gene therapy in patients who lack the CHRM5 isogene or have	
CC	only one copy of it, and in assays to measure the binding affinities of	
CC	one or more candidate drugs targeting CHRM5. The DNA sequence is used in	
CC	the treatment of disorders affected by expression or function of a novel	
CC	CHRM5 isogene of the invention. The protein encoded by the CHRM5 variant	
CC	is useful to identify drugs which target the CHRM5 polymorphic variant	
CC	protein. Antibodies against the protein can be used to neutralise the	
CC	CHRM5 isofomr actively expressed in an individual, and is useful in	
CC	detection of CHRM5 in immunocytochemical, immunohistochemical and	
CC	immunofluorescence. A composition containing a genotyping oligonucleotide	
CC	for detecting a polymorphism in the CHRM5 gene is used to detect novel	
CC	CHRM5 polymorphisms of the invention	
XX		
SO	Sequence 15 BP; 5 A; 1 C; 6 G; 3 T; 0 U; 0 Other;	
XX		
Query Match:	0.8%; Score 13.4; DB 1; Length 15;	
Best Local Similarity	60.0%; Pred. No. 4.5e+02;	
Matches	9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;	
OY	686 CCACCAUUCUUG 700	
DB	15 CCACCATCATTTTG 1	
XX		
RESULT 633		
ADV20569		
ID	ADV20569 standard; RNA; 15 BP.	
XX		
AC	ADV20569;	
XX		
DT	10-FEB-2005 (first entry)	
XX		
DE	Human anti-Her2 hammerhead ribozyme substrate sequence #9.	
XX		
KM	Enzymatic nucleic acid molecule; gene expression; down regulation;	
KM	protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;	

CC vessels or any other hyperplasia

XX Sequence 15 BP; 0 A; 5 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.4; DB 1; Length 15;

Best Local Similarity 93.3%; Pred. No. 4.5e+02; Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1713 GCAGUACCGACAG 1727

Db 15 GCAGACCGACAG 1

RESULT 829

ID AAF46731/C

XX AAF46731; standard, DNA; 15 BP.

XX AAF46731; standard, DNA; 15 BP.

XX 30-MAR-2001 (first entry)

XX IGFBP3 oligonucleotide #151.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytoskeletal; dermatological; cardiac; viral; ophthalmological; keloid;
XX skin disorder; insulin-like growth factor 1 receptor; IGF-1; pterygia;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; seborrhea; rubra;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX neovascular condition of the retina; ss.

XX Homo sapiens.

XX WO200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000WO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURD-) MURDOCH CHILDRENS RES INST.

XX Wraight CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.

XX Example 7; Page 45; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisense oligonucleotide, (for insulin-like growth factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisense
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX P45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pterygia, rubra, pilaris, seborrhea, keloids, keratosis,
XX neoplasia, scleroderma, warts, benign growths, cancers of the skin, a
XX hyperneovascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia

XX Sequence 15 BP; 0 A; 4 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 4.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACCGACAGA 1726

Db 15 AGCAGACCGACAGA 1

RESULT 830

ID AAA91436

XX AAA91436; standard, DNA; 15 BP.

XX AAA91436; standard, DNA; 15 BP.

XX 12-JUL-2001 (first entry)

XX Human CHRM5 gene, allele specific oligonucleotide #6.

XX CHRM5; human; cholinergic receptor muscarinic 5; polymorphic variant;

XX genotyping; haplotype; gene therapy; ss.

XX Homo sapiens.

XX WO200128995-A2.

XX 26-APR-2001.

XX 19-OCT-2000; 2000WO-US029071.

XX 21-OCT-1999; 99US-0160647P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Choi JY, Nandabalan K, Stephens JC;

XX WPI; 2001-300313/31.

XX Isolated polynucleotide encoding the cholinergic receptor, muscarinic 5
XX (CHRM5), used to genotype/haplotype the CHRM5 gene, and to identify an
XX association between a trait and a polymorphism, comprises novel
XX polymorphisms.

XX Claim 15; Page 44; 53pp; English.

XX This sequence is a the human cholinergic receptor, muscarinic 5 (CHRM5)
XX gene, allele specific oligonucleotide. The invention relates to a
XX polymorphic variant of the CHRM5 gene sequence. The polymorphic sequence
XX is useful to genotype or haplotype the CHRM5 gene, to predict a haplotype
XX pair for the CHRM5 gene, and for identifying an association between a
XX trait (such as a clinical response to a drug targeting CHRM5). It is also
XX useful in gene therapy in patients who lack the CHRM5 isogene or have
XX only one copy of it, and in assays to measure the binding affinities of
XX one or more candidate drugs targeting CHRM5. The DNA sequence is used in
XX the treatment of disorders affected by expression or function of a novel
XX CHRM5 isogene of the invention. The protein encoded by the CHRM5 variant
XX is useful to identify drugs which target the CHRM5 polymorphic variant
XX protein. Antibodies against the protein can be used to neutralise the
XX CHRM5 isoform activity expressed in an individual, and is useful in
XX detection of CHRM5 in immunocytochemical, immunohistochemical and
XX immunofluorescence. A composition containing a genotyping oligonucleotide
XX for detecting a polymorphism in the CHRM5 gene is used to detect novel
XX CHRM5 polymorphisms of the invention

XX Sequence 15 BP; 3 A; 5 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.4; DB 1; Length 15;

Best Local Similarity 73.3%; Pred. No. 4.5e+02; Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 452 CCAGCAUCCUCUG 466

Db 1 CCAGCAUCCUCUG 15

CC	sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC	screening assays and its antibodies are useful in immunoassays to detect
CC	CHRM3 protein variants in biological samples. The present sequence is an
CC	allele-specific oligonucleotide (ASO) probe used for detecting human
CC	CHRM3 gene polymorphism
XX	
XX	Sequence 15 BP; 4 A; 5 C; 2 G; 4 T; 0 U; 0 Other;
SO	
Query Match	0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity	66.7%; Pred. No. 4.5e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;	
OY	186 UCANACCGCUGCGCA 200
Db	1 TCATACCATCTGGCA 15
RESULT 828	
AAAF6730/c	
ID	AAAF6730 standard; DNA; 15 BP.
XX	
XX	AAAF6730;
AC	
XX	
XX	30-MAR-2001 (first entry)
DT	
XX	
DE	IGFBP3 oligonucleotide #150.
XX	
KM	Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KM	cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KM	skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
KM	IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KM	growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
KM	keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KM	hypervascular condition; hyperplasia; kidney disease;
KM	neovascular condition of the retina; sr.
XX	
OS	Homo sapiens.
XX	
PN	MO200078341-A1.
XX	
XX	28-DEC-2000.
PD	
XX	21-JUN-2000; 2000MO-AU000693.
PF	
XX	21-JUN-1999; 99US-0140345P.
PR	
XX	
PA	(MURDOCH CHILDRENS RES INST.
XX	
XX	Wright CJ, Werther GA, Edmondson SR;
PI	
XX	WPI; 2001-041421/05.
DR	
XX	
XX	Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT	UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT	inhibits or reduces growth factor mediated cell proliferation and/or
PT	inflammation.
XX	
PS	Example 7; Page 45; 201pp; English.
XX	
XX	The present invention relates to a method for ameliorating the effects of
CC	skin disorders. The method comprises contacting the skin with an
CC	antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC	receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC	inhibiting or reducing growth factor mediated cell proliferation,
CC	inflammation and/or other disorders. The present sequence is an
CC	oligonucleotide which can be used to design the antisense
CC	oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC	F45161). The method is useful for ameliorating the effects of psoriasis,
CC	ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
CC	neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC	hypervascular condition such as a neovascular condition of the retina,
CC	brain or skin, growth factor-mediated malignancies, other sclerotic
CC	disease, kidney disease, hyperproliferation of the inside of blood
CC	vessels, and other conditions.

CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is an
CC allele-specific oligonucleotide (ASO) probe used for detecting human
CC CHRM3 gene polymorphism

Sequence 15 BP; 5 A; 5 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 4.5e+02;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1285 AUCGAGCUGAGUCA 1299
Db 1 ATCCAGCCAGAGTCA 15

RESULT 825

AAD05863
ID AAD05863 standard; DNA; 15 BP.

AC AAD05863;

DT 31-JUL-2001 (first entry)

DE Human cholinergic receptor, muscarinic 3 gene ASO primer #7.

KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;

KW single nucleotide polymorphism; forensic application; gene therapy;

KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;

KW sudden infant death syndrome; genotyping; haplotyping; ASO;

KW chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.

OS Homo sapiens.

PN WO200129176-A2.

PD 26-APR-2001.

PF 12-OCT-2000; 2000MO-US028247.

PR 15-OCT-1999; 99US-0159860P.

PA (GENA-) GENA15SANCE PHARM INC.

PI Choi JY, Denton RR, Nandabalan K, Stephens JC;

DR WPI; 2001-300326/31.

PS Claim 15; Page 19; 54pp; English.

PT Novel polymorphic variant of reference sequence for human cholinergic

PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic

PT purposes.

PS Claim 15; Page 19; 54pp; English.

CC The patent relates to polymorphic variants of human cholinergic receptor,

CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one

CC single nucleotide polymorphism selected from cytosine at PS1, adenine at

CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method

CC for genotyping and haplotyping the CHRM3 gene for identification of

CC variants. The polymorphic variant is useful for therapeutic purposes, for

CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is an
CC allele-specific oligonucleotide (ASO) primer used for detecting human
CC CHRM3 gene polymorphism

Sequence 15 BP; 4 A; 3 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 73.3%; Pred. No. 4.5e+02;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 180 GGGAGGUCUACCGU 194
Db 1 GGGAGGTCATACCAT 15

RESULT 826

AAD05868/C
ID AAD05868 standard; DNA; 15 BP.

AC AAD05868;

DT 31-JUL-2001 (first entry)

DE Human cholinergic receptor, muscarinic 3 gene ASO primer #12.

KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;

KW single nucleotide polymorphism; forensic application; gene therapy;

KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;

KW sudden infant death syndrome; genotyping; haplotyping; ASO;

KW chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.

OS Homo sapiens.

PN WO200129176-A2.

PD 26-APR-2001.

PF 12-OCT-2000; 2000MO-US028247.

PR 15-OCT-1999; 99US-0159860P.

PA (GENA-) GENA15SANCE PHARM INC.

PI Choi JY, Denton RR, Nandabalan K, Stephens JC;

DR WPI; 2001-300326/31.

PS Claim 15; Page 19; 54pp; English.

PT Novel polymorphic variant of reference sequence for human cholinergic

PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic

PT purposes.

PS Claim 15; Page 19; 54pp; English.

CC The patent relates to polymorphic variants of human cholinergic receptor,

CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one

CC single nucleotide polymorphism selected from cytosine at PS1, adenine at

CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method

CC for genotyping and haplotyping the CHRM3 gene for identification of

CC variants. The polymorphic variant is useful for therapeutic purposes, for

CC studying the expression and biological function of CHRM3, as well as for

CC developing drugs targeting the CHRM3 protein. The variant is also useful

CC in diagnostics and forensic applications. The recombinant nonhuman

CC organism transfected with the polymorphic variant is useful for studying

PT Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
PT purposes.
PS Claim 15; Page 19; 54pp; English.
XX
CC The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is an
CC allele-specific oligonucleotide (ASO) primer used for detecting human
CC CHRM3 gene polymorphism
SQ Sequence 15 BP; 4 A; 2 C; 7 G; 2 T; 0 U; 0 Other;

QY Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 4.5e+02;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Db 1173 GCTUGAGGAGGAGCU 1187
1 GCCTGAGAGGAGAT 15

RESULT 823
AAD05854
ID AAD05854 standard; DNA; 15 BP.
XX
AC AAD05854;
XX
DT 31-JUL-2001 (first entry)
XX
DE Human cholinergic receptor, muscarinic 3 gene ASO probe #6.
XX
KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
KW single nucleotide polymorphism; forensic application; gene therapy;
KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
KW sudden infant death syndrome; genotyping; haplotyping;
KW chromosome 1q41-q44; ASO; allele-specific oligonucleotide; probe; ss.
XX
OS Homo sapiens.
XX
PN WO200129176-A2.
XX
PD 26-APR-2001.
XX
PF 12-OCT-2000; 2000WO-US028247.
XX
PR 15-OCT-1999; 99US-0159860P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX WPI; 2001-300326/31.
XX
PT Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
PT purposes.
XX

PS Claim 15; Page 19; 54pp; English.
XX
CC The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is an
CC allele-specific oligonucleotide (ASO) probe used for detecting human
CC CHRM3 gene polymorphism
SQ Sequence 15 BP; 4 A; 0 C; 9 G; 2 T; 0 U; 0 Other;

QY Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 4.5e+02;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Db 1179 GGAGGAGCGGGAGU 1193
1 GGAGGAGATGGGAT 15

RESULT 824
AAD05856
ID AAD05856 standard; DNA; 15 BP.
XX
AC AAD05856;
XX
DT 31-JUL-2001 (first entry)
XX
DE Human cholinergic receptor, muscarinic 3 gene ASO probe #8.
XX
KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
KW single nucleotide polymorphism; forensic application; gene therapy;
KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
KW sudden infant death syndrome; genotyping; haplotyping;
KW chromosome 1q41-q44; ASO; allele-specific oligonucleotide; probe; ss.
XX
OS Homo sapiens.
XX
PN WO200129176-A2.
XX
PD 26-APR-2001.
XX
PF 12-OCT-2000; 2000WO-US028247.
XX
PR 15-OCT-1999; 99US-0159860P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX WPI; 2001-300326/31.
XX
PT Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
PT purposes.
XX
PS Claim 15; Page 19; 54pp; English.
XX
CC The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one

BR 15-OCT-1999; 99US-0159860P.
XX (GENA-) GENAISSANCE PHARM INC.
XX PA
XX PI Choi JY, Denton RR, Nandabalan K, Stephens JC,
XX DR WPI; 2001-300326/31.
XX
PT Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
XX purposes.
XX
PS Claim 15; Page 19; 54pp; English.
XX
CC The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is an
CC allele-specific oligonucleotide (ASO) primer used for detecting human
CC CHRM3 gene polymorphism
XX
SQ Sequence 15 BP; 3 A; 8 C; 1 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 73.3%; Pred. No. 4.5e+02;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1279 CUUCCCAUCCAGCUA 1293
DB 1 CTTCCCATCCAGCA 15
XX
RESULT 821
AAD05864/C
ID AAD05864 standard; DNA; 15 BP.
XX
AC AAD05864;
XX
DT 31-JUL-2001 (first entry)
XX
DE Human cholinergic receptor, muscarinic 3 gene ASO primer #8.
XX
KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
KW single nucleotide polymorphism; forensic application; gene therapy;
KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
KW sudden infant death syndrome; genotyping; haplotyping; ASO;
KW chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN WO200129176-A2.
XX
PD 26-APR-2001.
XX
PF 12-OCT-2000; 2000WO-US028247.
XX
PR 15-OCT-1999; 99US-0159860P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX

PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX DR WPI; 2001-300326/31.
XX
PT Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
XX purposes.
XX
PS Claim 15; Page 19; 54pp; English.
XX
CC The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is an
CC allele-specific oligonucleotide (ASO) primer used for detecting human
CC CHRM3 gene polymorphism
XX
SQ Sequence 15 BP; 4 A; 5 C; 3 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 4.5e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
XX
QY 192 CGUCUGCAUGUGU 206
DB 15 CATCTGCAAGTGT 1
XX
RESULT 822
AAD05867
ID AAD05867 standard; DNA; 15 BP.
XX
AC AAD05867;
XX
DT 31-JUL-2001 (first entry)
XX
DE Human cholinergic receptor, muscarinic 3 gene ASO primer #11.
XX
KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
KW single nucleotide polymorphism; forensic application; gene therapy;
KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
KW sudden infant death syndrome; genotyping; haplotyping; ASO;
KW chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN WO200129176-A2.
XX
PD 26-APR-2001.
XX
PF 12-OCT-2000; 2000WO-US028247.
XX
PR 15-OCT-1999; 99US-0159860P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX DR WPI; 2001-300326/31.
XX

```
KM autoimmune disease; ss.
XX
XX Hepatitis C virus.
XX
XX WO955847-A2.
XX
XX 04-NOV-1999.
XX
XX 26-APR-1999; 99WO-US009027.
XX
XX 27-APR-1998; 98US-0083217P.
XX 18-SEP-1998; 98US-0100842P.
XX 25-FEB-1999; 99US-00257608.
XX 23-MAR-1999; 99US-00274553.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Blatt U, Mcswiggen JA, Roberts E, Pavco PA, Macejak D;
XX
XX WPI; 2000-062023/05.
XX
XX Novel ribozymes for the treatment of diseases and conditions related to
XX hepatitis C infection.
XX
XX Claim 1; Page 80; 123pp; English.
XX
XX The present sequence represents the preferred target sequence of an
XX enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
XX the Hepatitis C virus (HCV) RNA sequence at the base position given in
XX the descriptor line. The HCV sequence was screened for optimal ribozyme
XX target sites using a computer folding algorithm and regions of the mRNA
XX which did not form secondary folding structures and contained potential
XX ribozyme cleavage sites were identified. Ribozymes were synthesised to
XX target these sites and their activities optimised by either varying the
XX length of the binding arms or by modification to prevent degradation by
XX nucleases. The ribozymes of the invention inhibit gene expression and/or
XX viral replication, and are used to treat diseases associated with
XX Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and
XX hepatocellular carcinoma. The ribozymes may be used in combination with
XX interferon to treat HCV infection, other infectious diseases, autoimmune
XX diseases, and cancer
XX
XX Sequence 15 BP; 3 A; 3 C; 6 G; 0 T; 3 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.4; DB 1; Length 15;
XX Best Local Similarity 93.3%; Pred. No. 4.5e+02;
XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 645 UGUGCCUCCGCGAGA 659
XX | | | | | | | | | |
XX 1 UUGUACUCCGCGAGA 15
XX
XX Db
XX
XX RESULT 819
XX AAD05872/C
XX ID AAD05872 standard; DNA; 15 BP.
XX
XX AAD05872;
XX
XX 31-JUL-2001 (first entry)
XX
XX Human cholinergic receptor, muscarinic 3 gene ASO primer #16.
XX
XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
XX single nucleotide polymorphism; forensic application; gene therapy;
XX Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX sudden infant death syndrome; genotyping; haplotyping; ASO;
XX chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO200129176-A2.
XX
XX
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PD 26-APR-2001.
XX
XX 12-OCT-2000; 2000WO-US028247.
XX
XX 15-OCT-1999; 99US-0159860P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Choi JY, Denton KR, Nandabalan K, Stephens JC;
XX
XX WPI; 2001-300326/31.
XX
XX Novel polymorphic variant of reference sequence for human cholinergic
XX receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
XX purposes.
XX
XX Claim 15; Page 19; 54pp; English.
XX
XX The patent relates to polymorphic variants of human cholinergic receptor,
XX muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
XX single nucleotide polymorphism selected from cytosine at P81, adenine at
XX P82 or P83, and cytosine at P84. The invention also relates to a method
XX for genotyping and haplotyping the CHRM3 gene for identification of
XX variants. The polymorphic variant is useful for therapeutic purposes, for
XX studying the expression and biological function of CHRM3, as well as for
XX developing drugs targeting the CHRM3 protein. The variant is also useful
XX in diagnostics and forensic applications. The recombinant nonhuman
XX organism transfected with the polymorphic variant is useful for studying
XX expression of CHRM3 isogenes in vivo, for in vivo screening and testing
XX of drugs targeted against CHRM3 protein, and for testing the efficacy of
XX therapeutic agents and compounds for Alzheimer's disease, Sjogren's
XX syndrome, disorders associated with smooth muscle contractility and
XX sudden infant death syndrome. The CHRM3 protein variant is useful in drug
XX screening assays and its antibodies are useful in immunoassays to detect
XX CHRM3 protein variants in biological samples. The present sequence is an
XX allele-specific oligonucleotide (ASO) primer used for detecting human
XX CHRM3 gene polymorphism
XX
XX Sequence 15 BP; 2 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.4; DB 1; Length 15;
XX Best Local Similarity 80.0%; Pred. No. 4.5e+02;
XX Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1291 CUNGAGUCAGCCGUG 1305
XX | | | | | | | | | |
XX 15 CCAGAGTCAGCCGUG 1
XX
XX Db
XX
XX RESULT 820
XX AAD05871
XX ID AAD05871 standard; DNA; 15 BP.
XX
XX AAD05871;
XX
XX 31-JUL-2001 (first entry)
XX
XX Human cholinergic receptor, muscarinic 3 gene ASO primer #15.
XX
XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
XX single nucleotide polymorphism; forensic application; gene therapy;
XX Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
XX sudden infant death syndrome; genotyping; haplotyping; ASO;
XX chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO200129176-A2.
XX
XX 26-APR-2001.
XX
XX 12-OCT-2000; 2000WO-US028247.
XX
XX
```

FT /tag= a
FT /note= "polymorphic site indicated by an ambiguity base"
XX
XX WO200194365-A2.
XX
XX 13-DEC-2001.
XX
XX 11-JUN-2001; 2001WO-US018814.
XX
XX 09-JUN-2000; 2000US-0210568P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Choi JY, Koshy B, Sanchis A, Sausker EA;
XX WPI; 2002-404359/43.
XX
XX New variants of phosphorylase kinase gamma 2 isogenes, useful for
XX improving efficiency and reliability in the development of drugs for
XX treating diseases e.g. liver cirrhosis.
XX
XX Claim 16; Page 13; 76pp; English.
XX
XX The present invention describes an isolated polynucleotide (I) comprising
XX a nucleotide sequence which is a polymorphic variant of a reference
XX sequence for human phosphorylase kinase gamma2 (testis) (PHKG2) gene or
XX its fragment, or a polymorphic variant of a reference sequence for a
XX PHKG2 cDNA or its fragment. Also described is an isolated polypeptide
XX (II) comprising an amino acid sequence which is a polymorphic variant of
XX a reference sequence for PHKG2 protein or its fragment, where the
XX reference sequence comprises a sequence (see ABB09290) of 406 amino
XX acids, and the polymorphic variant comprises one or more variant amino
XX acids selected from glutamic acid at a position corresponding to amino
XX acid position 153 and tryptophan at position corresponding to amino acid
XX position 339. (I) has hepatotropic activity and can be used in gene
XX therapy. (II) is useful in screening for drugs targeting (II), by
XX contacting a PHKG2 polymorphic variant with a candidate agent and
XX assaying for binding activity. The identified candidate agents targeting
XX PHKG2, are useful for treating liver cirrhosis and glycogen storage
XX diseases. The present sequence represents an allele specific
XX oligonucleotide (ASO) primer for the PHKG2 gene, which is used in the
XX exemplification of the present invention
SQ Sequence 15 BP; 3 A; 6 C; 4 G; 1 T; 0 U; 1 Other:
Query Match 0.8%; Score 13.6; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 4.2e+02;
Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1467 GGGCCGAGCCCUCA 1480
DB 2 GGGCCGAGCCCTSA 15
RESULT 817
ID AA64643/c
XX AA64643; RNA; 15 BP.
XX
XX 20-JUL-1999 (first entry)
XX
XX Human B7-1 hammerhead ribozyme target SEQ ID NO:1275.
XX
XX Arthritic condition; graft tolerance; immune response; target; cleavage;
XX hammerhead ribozyme; halpin ribozyme; human; rabbit; mouse; collagenase;
XX streptolysin; synovial membrane; joint; arthritis; osteoarthritis;
XX rheumatoid arthritis; autoimmune disease; allergy; inflammation;
XX diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9618736-A2.
XX
XX

XX
XX 20-JUN-1996.
XX
XX 22-NOV-1995; 95WO-US015516.
XX
XX 13-DEC-1994; 94US-00354920.
XX
XX 23-DEC-1994; 94US-00363253.
XX
XX 23-DEC-1994; 94US-00363254.
XX
XX 17-FEB-1995; 95US-00390850.
XX
XX 20-APR-1995; 95US-00426124.
XX
XX 02-MAY-1995; 95US-00432874.
XX
XX 04-MAY-1995; 95US-00434509.
XX
XX 07-JUL-1995; 95US-0000951P.
XX
XX 07-JUL-1995; 95US-0000974P.
XX
XX 07-AUG-1995; 95US-00512861.
XX
XX 05-OCT-1995; 95US-00541365.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Belgelman L, Stinchcomb DT, Jarvis T, Draper K, Pavco P;
XX Mswiggen J, Gustofson J, Usman N, Wincott F, Matulic-Adamic J;
XX Karpetsky A, Thompson UD, Modak A, Burgin A;
XX WPI; 1996-300653/30.
XX
XX Enzymatic nucleic acid molecules having a hammer-head motif - used for
XX the treatment of arthritis, induction of graft tolerance or treatment of
XX auto-immune diseases.
XX
XX Claim 10; Page 167; 307pp; English.
XX
XX The present invention describes a novel enzymatic nucleic acid (ENA)
XX having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues
XX; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least
XX ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's
XX can inhibit collagenase and stromelysin production in the synovial
XX membrane of joints for the treatment or prevention of arthritis,
XX particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
XX be used to treat antigen presenting cells of a donor to induce tolerance
XX in a recipient to an alloantigen of a donor. They can also be used for
XX enhancing graft tolerance or for treating autoimmune disease, and for
XX treating allergies and other inflammatory conditions. The ENA's can also
XX be used in diagnosis. Ribozyme therapy impacts on the expression of
XX CC stromelysin without introducing the non-specific effects upon gene
XX expression which accompany treatment with retinoids and dexamethasone.
XX CC The concentration of ribozyme required to affect a therapeutic treatment
XX is lower than that required of antisense molecules, and is highly
XX specific. The present sequence is used in the exemplification of the
XX present invention
SQ Sequence 15 BP; 5 A; 3 C; 3 G; 0 T; 4 U; 0 Other:
Query Match 0.8%; Score 13.4; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 4.5e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 486 CAGCUUGACAGAU 500
DB 15 CAGCTTGACTGATA 1
RESULT 818
ID AA264090
XX AA264090 standard; RNA; 15 BP.
XX
XX AA264090;
XX
XX 28-MAR-2000 (first entry)
XX
XX Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 4851.
XX
XX Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
XX cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
XX
XX

XX	Probe; ss; blood; DNA typing; blood transfusion; blood group;
KM	SNP detection; DNA microarray.
XX	
OS	Homo sapiens.
PN	WO2005095650-A1.
XX	
PD	13-OCT-2005.
XX	
PF	31-MAR-2005; 2005WO-NL000236.
XX	
PR	01-APR-2004; 2004EP-00076046.
XX	
PA	(SANO-) STICHTING SANQUIN BLOEDVOORZIENING.
XX	
PI	Belboer SHW, Wieringa-Jelsma H, Den Dunnen JT, De Haas M;
XX	
DR	WPI; 2005-725532/74.
XX	
PT	Genotyping blood cell antigens, by amplifying and detectably labeling DNA
PT	by multiplex PCR at region of locus of blood cell antigen containing
PT	nucleotide polymorphism, determining genotype for blood cell antigens
XX	using chimeric primers.
PS	
XX	Claim 13; SEQ ID NO 95; 80pp; English.
XX	
CC	The invention relates to genotyping (M1) blood cell antigens, comprising
CC	subjecting DNA from the individual to a multiplex PCR to amplify (and
CC	detectably label) a region of the locus of different blood cell antigens
CC	containing the site of a nucleotide polymorphism (arranged in an array)
CC	and using the amplified and labeled DNA fragments to determine the
CC	genotype for each of the blood cell antigens, using a pair of blood cell
CC	antigen-specific chimeric primers and a detectably labeled universal
CC	primer. Also included are a kit (I) for genotyping blood cell antigens by
CC	(M1) (comprising a pair of blood cell antigen-specific chimeric primers
CC	for each blood cell antigen to be genotyped and a detectably labeled
CC	universal primer, preferably a pair of detectably labeled universal
CC	primers), a set of blood cell antigen-specific chimeric primer pairs
CC	useful in a multiplex PCR (comprising at least two, preferably
CC	substantially all of chimeric primers) and a set of blood cell antigen
CC	allele-specific oligonucleotide probes useful for genotyping blood cell
CC	antigens. (M1) enables genotyping of large number of blood cell antigens
CC	and is a practical, rapid and reliable method for analyzing the
CC	hybridization results to assign the clinically relevant blood cell
CC	antigen genotypes. The present sequence is a blood group antigen specific
CC	probe useful in the method of the invention.
SQ	
XX	Sequence 17 BP; 2 A; 12 C; 2 G; 1 T; 0 U; 0 Other;
XX	
Query Match	0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity	76.5%; Pred. No. 5.1e+02;
Matches	13; Conservative 2; Mismatches 2; Indels 0; Gaps 0
OY	1179 GGAGGAGCTGGGGAUGG 1195
DB	17 GGAGGGGCTGGGGCTGG 1
: :	
RESULT 815	
AED16029	ABD16029 standard; DNA; 17 BP.
XX	
AC	AED16029;
XX	
DT	15-DEC-2005 (first entry)
XX	
DE	Probe for blood cell antigen HPB3-allele a, HPB-3ba CR.
XX	
KM	Probe; ss; blood; DNA typing; blood transfusion; blood group;
KM	SNP detection; DNA microarray.
XX	
OS	Homo sapiens.

XX	PM	WO2005095650-A1.
XX	PD	13-OCT-2005.
XX	PF	31-MAR-2005; 2005MO-NL000236.
XX	PR	01-APR-2004; 2004EP-00076046.
XX	PA	(SANQ-) STICHTING SANQUIN BLOEDVOORZIENING.
XX	PI	Belboer SMW, Wieringa-Jelma H, Den Dunnen JT, De Haas M;
XX	DR	WPI; 2005-725532/74.
XX	PT	Genotyping blood cell antigens, by amplifying and detectably labeling DNA
XX	PT	by multiplex PCR at region of locus of blood cell antigen containing
XX	PT	nucleotide polymorphism, determining genotype for blood cell antigens
XX	PT	using chimeric primers.
XX	PS	Claim 13; SEQ ID NO 102; 80pp; English.
XX	CC	The invention relates to genotyping (M1) blood cell antigens, comprising
XX	CC	subjecting DNA from the individual to a multiplex PCR to amplify (and
XX	CC	detectably label) a region of the locus of different blood cell antigens
XX	CC	containing the site of a nucleotide polymorphism (arranged in an array)
XX	CC	and using the amplified and labeled DNA fragments to determine the
XX	CC	genotype for each of the blood cell antigens, using a pair of blood cell
XX	CC	antigen-specific chimeric primers and a detectably labeled universal
XX	CC	primer. Also included are a kit (1) for genotyping blood cell antigens by
XX	CC	(M1) (comprising a pair of blood cell antigen-specific chimeric primers
XX	CC	for each blood cell antigen to be genotyped and a detectably labeled
XX	CC	universal primer, preferably a pair of detectably labeled universal
XX	CC	primers), a set of blood cell antigen-specific chimeric primer pairs
XX	CC	useful in a multiplex PCR (comprising at least two, preferably
XX	CC	substantially all of chimeric primers) and a set of blood cell antigen
XX	CC	allele-specific oligonucleotide probes useful for genotyping blood cell
XX	CC	antigens. (M1) enables genotyping of large number of blood cell antigens
XX	CC	and is a practical, rapid and reliable method for analyzing the
XX	CC	hybridization results to assign the clinically relevant blood cell
XX	CC	genotypes. The present sequence is a blood group antigen specific
XX	CC	probe useful in the method of the invention.
XX	SO	Sequence 17 BP; 1 A; 2 C; 12 G; 2 T; 0 U; 0 Other;
XX	XX	
XX	XX	Query Match 0.8%; Score 13.8; DB 1; Length 17;
XX	XX	Best Local Similarity 76.5%; Pred. No. 5.1e+02;
XX	XX	Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0
XX	QY	1179 GGAGGAGCGGCGAUGC 1195
XX	DB	: :
XX		1 GGAGGCGCTGGGGCTCG 17
XX	RESULT 816	
XX	ABL52248	
XX	ID	ABL52248 standard; DNA; 15 BP.
XX	XX	
XX	AC	ABL52248;
XX	XX	
XX	DT	15-JUN-2002 (first entry)
XX	XX	
XX	DE	Human PHKG2 allele specific oligonucleotide primer SEQ ID NO:35.
XX	XX	
XX	KM	Human, phosphorylase kinase gamma 2 (testis); PHKG2; enzyme; SNP;
XX	KM	phosphorylase kinase gamma 2; single nucleotide polymorphism;
XX	KM	polymorphic; hepatotropic; gene therapy; glycogen storage disease;
XX	KM	liver cirrhosis; allele specific oligonucleotide; ASO; primer; ss.
XX	OS	
XX	XX	Homo sapiens.
XX	XX	
XX	Key	Location/Qualifiers
XX	PH	14
XX	PT	misc feature

XX The invention relates to a novel probe set used for identifying human
 CC leukocyte antigen-contribution of MHC class I chain-related-A (HLA-MICA)
 CC alleles in a test substance. The probe set comprises several probes,
 CC where each probe has a partial sequence containing bases represented in
 CC capital letters in a fully defined HLA-MICA allele list, given in the
 CC specification. The probe set can identify a HLA-MICA allele in patients
 CC with an organ transplant, cancer, diabetes and other multiple-factor
 CC diseases, and enables the provision of tailored medical treatment to
 CC individual patients. This oligo sequence represents a probe used in the
 CC detection of a HLA-MICA allele of the invention.

XX Sequence 17 BP; 0 A; 6 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 5.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1709 AGCAGCAGGACGACGAG 1725
 Db | | | | | | | | | | | | | | | | |
 17 AGCAGCAGCAGCAGCAG 1

RESULT 812
 AEB35374/C
 ID AEB35374 standard; DNA; 17 BP.

XX AEB35374;

DT 22-SEP-2005 (first entry)

DE Human leukocyte antigen - MICA allele detection probe, SEQ ID 34.

XX human leukocyte antigen; MICA; transplant rejection; cancer; cytostatic;
 KM diabetes; antidiabetic; multifactorial genetic disorder; probe; ss.

OS Homo sapiens.
 OS Synthetic.

PN JP2005185177-A.

XX 14-JUL-2005.

PF 25-DEC-2003; 2003JP-00430559.

PR 25-DEC-2003; 2003JP-00430559.

PA (CANO) CANON KK.

XX Tsukada M;

DR WPI; 2005-515776/53.

XX Probe set for identifying human leukocyte antigen (HLA)-MICA allele in
 PT test substance of patients with e.g. cancer and diabetes, enabling
 PT tailored medical treatment.

PS Claim 2; SEQ ID NO 34; 27BP; Japanese.

XX The invention relates to a novel probe set used for identifying human
 CC leukocyte antigen-contribution of MHC class I chain-related-A (HLA-MICA)
 CC alleles in a test substance. The probe set comprises several probes,
 CC where each probe has a partial sequence containing bases represented in
 CC capital letters in a fully defined HLA-MICA allele list, given in the
 CC specification. The probe set can identify a HLA-MICA allele in patients
 CC with an organ transplant, cancer, diabetes and other multiple-factor
 CC diseases, and enables the provision of tailored medical treatment to
 CC individual patients. This oligo sequence represents a probe used in the
 CC detection of a HLA-MICA allele of the invention.

XX Sequence 17 BP; 0 A; 6 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 5.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1709 AGCAGCAGGACGACGAG 1725
 Db | | | | | | | | | | | | | | | | |
 17 AGCAGCAGCAGCAGCAG 1

RESULT 813
 AEB35374/C
 ID AEB35374 standard; DNA; 17 BP.

XX AEB35374;

DT 22-SEP-2005 (first entry)

DE Human leukocyte antigen-A DNA probe, SEQ ID 257.

XX human leukocyte antigen; HLA; probe; transplant rejection; cancer;
 KM cytostatic; diabetes; antidiabetic; multifactorial genetic disorder; ss.

OS Homo sapiens.

PN JP2005185176-A.

XX 14-JUL-2005.

PF 25-DEC-2003; 2003JP-00430558.

PR 25-DEC-2003; 2003JP-00430558.

PA (CANO) CANON KK.

XX Tsukada M;

DR WPI; 2005-515775/53.

XX Probe set for identifying human leukocyte antigen (HLA)-DP allele in
 PT patients with organ transplant, cancer or diabetes enabling tailored
 PT medical treatment.

PS Claim 2; SEQ ID NO 257; 90BP; Japanese.

XX The invention relates to a novel probe set for identifying a human
 CC leukocyte antigen-A (HLA-A) allele in a test substance. The probe set
 CC comprises several probes chosen from the fully defined nucleic acid
 CC sequences (SEQ ID No: 251-431 and SEQ ID No: 455-631) as given in the
 CC specification. The novel probe set can identify HLA-A alleles in patients
 CC with organ transplants, cancer, diabetes and other multiple-factor
 CC diseases, and enables tailored medical treatment to individual patients.
 CC This oligo sequence represents a human leukocyte antigen-A DNA probe of
 CC the invention.

XX Sequence 17 BP; 1 A; 3 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 5.1e+02;
 Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 152 CTCACAGCGGACACACC 168
 Db | | | | | | | | | | | | | | | | |
 17 CTCACAGGACGACACACC 1

RESULT 814
 AED16022/C
 ID AED16022 standard; DNA; 17 BP.

XX AED16022;

DT 15-DEC-2005 (first entry)

XX Probe for blood cell antigen HPA3-allele a, HPA-3ba.

CC	modulating agents that exhibit a high degree of specificity for RNA of a desired target.
CC	(1) is useful for modulating HER2 activity in a cell, and for treating diseases or conditions related to levels of HER2 gene expression. (1) is useful for treating cancer, such as pancreatic cancer, bladder cancer, lung cancer, breast cancer or prostate cancer. The present sequence represents a human HER2 substrate RNA sequence for a DNzyme (ribozyme), which is used in an example from the present invention for the identification of potential target sites in human HER2 RNA.
CC	
CC	
SQ	Sequence 17 BP; 2 A; 3 C; 7 G; 0 T; 5 U; 0 Other;
OY	Query Match 0.8%; Score 13.8; DB 1; Length 17; Best Local Similarity 88.2%; Pred. No. 5.1e+02; Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
DB	1626 GUGCUAUGCUCUUGCA 1642 1 GUGCUAUGCUCUGGCA 17
RESULT 810	
ID	AD234569
AC	AD234569 standard; RNA; 17 BP.
DT	AD234569;
DE	30-JUN-2005 (first entry)
XX	Human HER2 substrate RNA sequence SEQ ID NO:5607.
KW	short interfering RNA; siRNA; RNA interference; gene silencing;
KX	cytostatic; cancer; HER2; substrate; ss.
OS	Homo sapiens.
XX	
FN	US2005080031-A1.
PD	14-APR-2005.
PF	26-NOV-2003; 2003US-00724270.
XX	
PR	18-MAY-2001; 2001US-0292217P.
PR	29-MAY-2001; 2001US-0294140P.
PR	06-JUN-2001; 2001US-0296249P.
PR	20-JUL-2001; 2001US-0306883P.
PR	13-AUG-2001; 2001US-0311865P.
PR	10-SEP-2001; 2001US-0318471P.
PR	20-FEB-2002; 2002US-0358580P.
PR	11-MAR-2002; 2002US-0362016P.
PR	20-MAY-2002; 2002US-0363124P.
PR	20-MAY-2002; 2002WO-US015876.
PR	29-MAY-2002; 2002US-00157580.
PR	29-MAY-2002; 2002WO-US016840.
PR	06-JUN-2002; 2002US-00163552.
PR	06-JUN-2002; 2002US-0386782P.
PR	29-AUG-2002; 2002US-0406784P.
PR	05-SEP-2002; 2002US-0408378P.
PR	09-SEP-2002; 2002US-0409293P.
PR	10-SEP-2002; 2002US-00238700.
PR	15-JAN-2003; 2003US-0440129P.
PR	20-FEB-2003; 2003WO-US005028.
PR	20-FEB-2003; 2003WO-US005346.
PR	16-APR-2003; 2003US-00417012.
PR	24-APR-2003; 2003US-00422704.
PR	30-APR-2003; 2003US-00427160.
PR	23-MAY-2003; 2003US-00444853.
PR	29-AUG-2003; 2003US-00652791.
PR	23-OCT-2003; 2003US-00693059.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
XI	Mewiggen J;

XX		WP1; 2005-331166/34.
DR		
PT		Novel double-stranded short interfering RNA molecule having first
PT		nucleotide sequence complementary to RNA encoding HER2 or its portion,
PT		and second nucleotide sequence having complementarity to first sequence,
PT		useful for treating cancer.
PX		
XX		Example 10; SEQ ID NO 5607; 143bp; English.
CC		The invention relates to a double-stranded short interfering RNA (siRNA)
CC		molecule (I) comprising a first nucleotide sequence having 19-23
CC		nucleotides complementary to an RNA sequence encoding HER2 or its
CC		portion, and a second nucleotide sequence having 19-23 nucleotides
CC		exhibiting complementarity to the first sequence, and including at least
CC		one nucleotide that is not a 2'-OH containing ribonucleotide. Also
CC		described is a method of producing a class of nucleic acid-based gene
CC		modulating agents that exhibit a high degree of specificity for RNA of a
CC		desired target. (I) is useful for modulating HER2 activity in a cell, and
CC		for treating diseases or conditions related to levels of HER2 gene
CC		expression. (I) is useful for treating cancer, such as pancreatic cancer,
CC		bladder cancer, lung cancer, breast cancer or prostate cancer. The
CC		present sequence represents a human HER2 substrate RNA sequence for a
CC		DNAzyme (ribozyme), which is used in an example from the present
CC		invention for the identification of potential target sites in human HER2
CC		RNA.
SQ		
	Sequence 17 BP; 3 A; 3 C; 7 G; 0 T; 4 U; 0 Other;	
	Query Match	0.8%; Score 13.8; DB 1; Length 17;
	Best Local Similarity	88.2%; Pred. No. 5.1e+02;
	Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
OY		
	406 UVAGGGAACUUGGCCUG 422	
Db	1 UVAGGGAACUUGGCCUG 17	
RESULT 811		
ID	AEB35378/C	
XX	AEB35378 standard; DNA; 17 BP.	
AC		
XX	AEB35378;	
DT		
XX	22-SEP-2005 (first entry)	
DE		
	Human leukocyte antigen - MICCA allele detection probe, SEQ ID 38.	
KW		
KW	human leukocyte antigen; MICCA; transplant rejection; cancer; cytostatic;	
KW	diabetes; antidiabetic; multifactorial genetic disorder; probe; ss.	
XX		
OS	Homo sapiens.	
OS	Synthetic.	
XX		
PN	JP2005185177-A.	
PD		
XX	14-JUL-2005.	
PF		
XX	25-DEC-2003; 2003JP-00430559.	
PR		
XX	25-DEC-2003; 2003JP-00430559.	
PA		
XX	(CANO) CANON KK.	
PI		
XX	Tsuikada M;	
XX		
XX	WP1; 2005-515776/53.	
PT		
PT	Probe set for identifying human leukocyte antigen (HLA)-MICCA allele in	
PT	test substance of patients with e.g. cancer and diabetes, enabling	
PT	tailored medical treatment.	
XX		
XX		
PS	Claim 2; SEQ ID NO 38; 27pp; Japanese.	

CC amount of DLG5 and methods are useful for preparing a medicament for
CC treating IBD, ulcerative colitis and Crohn's disease. The human gene
CC encoding DLG5 is located on chromosome 10-q22.3. The present sequence is
CC a control PCR primer used in expression analysis of the dlgs gene.

XX Sequence 17 BP; 2 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 5.1e+02;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Oy 325 AGCCGCGCCGCGCGCA 341

Db 1 AGCCTCGCCTTTCGCCA 17

RESULT 808

ADX99460
ID ADX99460 standard; DNA; 17 BP.

XX ADX99460;

XX 05-MAY-2005 (first entry)

DE Extend primer 33 used to genotype human MAPK10 SNP DNA.

XX SNP detection; breast tumor; endocrine disease;
XX gynecology and obstetrics; neoplasm; cytostatic; metastasis;
XX gene therapy; RNA interference; mitogen-activated protein kinase 10;
XX Jun N terminal kinase-3; MAPK10; ss; PCR; primer.

OS Homo sapiens.

XX WO2005014846-A2.

XX 17-FEB-2005.

XX 27-MAY-2004; 2004WO-US016939.

XX 24-JUL-2003; 2003US-0490234P.

XX 25-NOV-2003; 2003US-00723681.

XX 25-NOV-2003; 2003US-0525239P.

XX (SEQU-) SEQUENOM INC.

XX Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;
XX Hoyal-Wrightson CR;

XX WPI; 2005-163257/17.

PT Identifying risk of, preventing and/or treating breast cancer by
PT identifying and/or analyzing polymorphic variations in nucleotide
PT sequences within the human genome.

PS Example 5; Page 126; 617pp; English.

XX The invention relates to a novel method for identifying a subject at risk
XX of breast cancer comprising detecting the presence or absence of a
XX polymorphic variation associated with breast cancer. The method of the
XX invention demonstrates cytostatic activity and may be useful for
XX identifying a risk of, preventing and/or treating breast cancer and
XX cancer metastasis. The methods may be utilized for gene therapy or RNA
XX interference. The current sequence is that of an Extend primer of the
XX invention which was used to genotype a human mitogen-activated protein
XX kinase 10 (MAPK10) single nucleotide polymorphism (SNP).

XX Sequence 17 BP; 7 A; 5 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 5.1e+02; Mismatches 2; Indels 0; Gaps 0;

Oy 1456 GAGAGAAAGCGGCCCA 1472

Db 1 GAGAGAAAGCGGCCCA 17

RESULT 809

ADZ33903
ID ADZ33903 standard; RNA; 17 BP.

XX ADZ33903;

XX 30-JUN-2005 (first entry)

DE Human HER2 substrate RNA sequence SEQ ID NO:4941.

XX short interfering RNA; siRNA; RNA interference; gene silencing;
XX cytostatic; cancer; HER2; substrate; ss.

OS Homo sapiens.

XX US2005080031-A1.

XX 14-APR-2005.

XX 26-NOV-2003; 2003US-00724270.

XX 18-MAY-2001; 2001US-0292217P.

XX 29-MAY-2001; 2001US-0294140P.

XX 06-JUN-2001; 2001US-0296249P.

XX 20-JUL-2001; 2001US-0306883P.

XX 13-AUG-2001; 2001US-0311865P.

XX 10-SEP-2001; 2001US-0318471P.

XX 20-FEB-2002; 2002US-0358580P.

XX 06-MAR-2002; 2002US-0362016P.

XX 11-MAR-2002; 2002US-0363124P.

XX 20-MAY-2002; 2002WO-US015876.

XX 29-MAY-2002; 2002US-00157580.

XX 06-JUN-2002; 2002US-00163552.

XX 06-JUN-2002; 2002US-0386782P.

XX 29-AUG-2002; 2002US-0406784P.

XX 05-SEP-2002; 2002US-0408378P.

XX 09-SEP-2002; 2002US-0409293P.

XX 10-SEP-2002; 2002US-0409293P.

XX 15-JAN-2003; 2003US-0440129P.

XX 20-FEB-2003; 2003WO-US005346.

XX 16-APR-2003; 2003US-00417012.

XX 24-APR-2003; 2003US-00422704.

XX 30-APR-2003; 2003US-00427160.

XX 23-MAY-2003; 2003US-00444851.

XX 29-AUG-2003; 2003US-00652791.

XX 23-OCT-2003; 2003US-00693059.

XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Mcswigen J;

XX WPI; 2005-331166/34.

PT Novel double-stranded short interfering RNA molecule having first
PT nucleotide sequence complementary to RNA encoding HER2 or its portion,
PT and second nucleotide sequence having complementarity to first sequence,
PT useful for treating cancer.

PS Example 10; SEQ ID NO 4941; 143pp; English.

XX The invention relates to a double-stranded short interfering RNA (siRNA)
XX molecule (I) comprising a first nucleotide sequence having 19-23
XX nucleotides complementary to an RNA sequence encoding HER2 or its
XX portion, and a second nucleotide sequence having 19-23 nucleotides
XX exhibiting complementarity to the first sequence, and including at least
XX one nucleotide that is not a 2'-OH containing ribonucleotide. Also
XX described is a method of producing a class of nucleic acid-based gene

XX DR WPI: 2004-533378/51.
XX
XX PT Novel myosin-like protein-1, useful for treating or preventing disorder
XX PT associated with decreased expression or activity of human genome-derived
XX PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
XX PT function.
XX
XX PS Disclosure; SEQ ID NO 2301; Opp; English.
XX
XX CC The invention relates to a novel polypeptide (I) comprising a sequence
XX CC (SI) of myosin-like protein-1 (hGDMF-1) having 2568 amino acids fully
XX CC defined in the specification, a fragment of at least 8 amino acids of
XX CC (SI), 95% deviation from (SI) which are conservative substitutions, and
XX CC 65% identity to (SI). A polypeptide of the invention acts as a agonist or
XX CC antagonist of hGDMF-1, or as an inhibitor of hGDMF-1 activity. A
XX CC pharmaceutical composition of the invention is useful for treating or
XX CC preventing a disorder associated with decreased expression or activity of
XX CC hGDMF-1, such as a disorder of heart and/or skeletal muscle function.
XX CC The present sequence represents a 17-mer nucleotide, used in the
XX CC invention for scanning the sequence represented in ACN63102
XX
XX SO Sequence 17 BP; 4 A; 8 C; 4 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 82.4%; Pred. No. 5.1e+02;
XX Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 990 CCACGACGACGAGUGACA 1006
XX DB 1 CCACAGCCGCGAGTGCCA 17
XX
XX RESULT 806
XX ADS12595
XX ID ADS12595 standard; DNA; 17 BP.
XX AC ADS12595;
XX XX
XX DT 16-DEC-2004 (first entry)
XX
XX DE Forward RT-PCR primer used to amplify human beta-actin DNA Seq.
XX
XX KW PCR; primer; ss; microarray; inflammatory bowel disease; Crohn's disease;
XX KW ulcerative colitis; screening method; antiinflammatory; anticancer;
XX KW RT-PCR; real-time PCR; beta-actin.
XX
XX OS Homo sapiens.
XX
XX PN EPI462527-A1.
XX
XX PD 29-SEP-2004.
XX
XX PF 26-MAR-2003; 2003EP-00006943.
XX
XX PR 26-MAR-2003; 2003EP-00006943.
XX
XX PA (CONA-) CONARIS RES INST AG.
XX
XX P1 Costello C, Ma N, Schreiber SD, Seegert D;
XX
XX DR WPI: 2004-663617/65.
XX
XX PT New diagnostic composition comprising specific nucleic acid molecules,
XX PT useful for diagnosing or developing a compound for treating inflammatory
XX PT bowel diseases or related disease e.g., Crohn's disease and ulcerative
XX PT colitis.
XX
XX PS Example 1; SEQ ID NO 5; 63pp; English.
XX
XX CC This invention relates to a novel diagnostic composition that comprises
XX CC nucleic acid molecules bound to a solid support (or microarray), wherein
XX CC each nucleic acid can hybridise to an mRNA of a gene that shows abnormal

CC expression in an gastrointestinal condition. Specifically, it refers to
CC DNA oligos useful for preparing a microarray chip for the diagnosis of
CC inflammatory bowel disease, Crohn's disease, ulcerative colitis or a
CC disposition thereof. The present invention describes nucleic acid
CC molecules useful for screening methods to identify compounds that can be
CC used for therapy or to prevent progression of the aforementioned
CC conditions. As such, the pharmaceutical compositions developed
CC accordingly exhibit antiinflammatory and anticancer activities. This
CC oligonucleotide sequence is an RT-PCR primer used to amplify a human DNA
CC sequence differentially expressed in gastrointestinal disorders, given in
XX an exemplification of the invention.
XX
XX SO Sequence 17 BP; 2 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 70.6%; Pred. No. 5.1e+02;
XX Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 325 AGCCUGACCGUGCCGA 341
XX DB 1 AGCCTCGCCTTTCGCA 17
XX
XX RESULT 807
XX ADV26279
XX ID ADV26279 standard; DNA; 17 BP.
XX AC ADV26279;
XX XX
XX DT 10-MAR-2005 (first entry)
XX
XX DE Human beta-actin control forward primer.
XX
XX KW ss; primer; inflammatory bowel disease; Crohn's disease;
XX KW ulcerative colitis; gastrointestinal-gen.; inflammation;
XX KW antiinflammatory; diagnosis; DNA polymorphism; PCR.
XX
XX OS Homo sapiens.
XX
XX PN WO2004109286-A1.
XX
XX PD 16-DEC-2004.
XX
XX PF 03-JUN-2004; 2004WO-SE000861.
XX
XX PR 06-JUN-2003; 2003GB-00013081.
XX
XX PR 26-NOV-2003; 2003GB-00027427.
XX
XX PA (ASTR) ASTRAZENECA AB.
XX
XX PI Corneliusen B, Schreiber S, Stoll M;
XX
XX DR WPI: 2005-057661/06.
XX
XX PT Identifying a compound capable of modulating the action of the DLG5
XX PT protein comprises subjecting one or more test compounds to a screen
XX PT comprising DLG5 polypeptide, its homologue or fragment.
XX
XX PS Example 3; SEQ ID NO 171; 79pp; English.
XX
XX CC The invention relates to identifying a compound capable of modulating the
XX CC action of the DLG5 protein comprising subjecting one or more test
XX CC compounds to a screen comprising a DLG5 polypeptide appearing as
XX CC ADV26112, its homologue or fragment. Also included are identifying a
XX CC potential anti-inflammatory bowel disease (anti-IBD) therapeutic
XX CC compounds, screening for a compound potentially useful for treating IBD,
XX CC a cell comprising a reporter gene under the control of the DLG5 promoter,
XX CC testing potential therapeutic agents for the ability to suppress IBD
XX CC phenotype, identifying inhibitors of transcription of DLG5, preparing a
XX CC pharmaceutical composition and diagnosing IBD or determining
XX CC susceptibility to develop IBD. The methods are useful for identifying a
XX CC compound capable of modulating the action of the DLG5 protein or
XX CC diagnosing IBD. The compound that is able to modulate that activity or

PI Blact L, Mcswigen J, Roberts E, Pavco PA, Macejack D;
XX WPI; 2004-031273/03.
XX
XX Enzymatic nucleic acid molecules which specifically cleave RNA derived
PT from hepatitis C virus (HCV), useful for the treatment of HCV infections,
XX especially in combination with type I interferon therapy.
XX
PS Claim 1, SEQ ID NO 3957; 198bp; English.
XX
XX The invention relates to an enzymatic nucleic acid molecule which
CC specifically cleaves RNA derived from hepatitis C virus (HCV), in which
CC the binding arms of the enzymatic nucleic acid molecule comprises
CC sequences complementary to any of the defined substrate sequences given
CC in the specification. The nucleic acid molecule may be administered for
CC the treatment of HCV infections, especially in combination with type I
CC interferon. The present sequence represents a HCV DNAzyme substrate
CC sequence.
CC
CC Revised record issued on 22-SEP-2005 : No correction was made to this
CC record
CC
SQ Sequence 17 BP; 2 A; 5 C; 5 G; 0 T; 5 U; 0 Other;
XX
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 5.1e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
XX
QY 1230 CCAGAGAGCGGAGCG 1246
DB 17 CCAGAGACATCGTGAGCG 1
XX
RESULT 804
ADP46073
ID ADP46073 standard; DNA; 17 BP.
XX
AC ADP46073;
XX
DT 26-AUG-2004 (first entry)
XX
DE Extend primer 45 used to genotype human MAP kinase MAPK10 polymorphism.
XX
XX breast cancer; cytosolic; gene therapy; human; ss; primer; PCR; SNP;
XX single nucleotide polymorphism; MAP kinase; MAPK10; JNK3; JNK3A; p493F12;
XX p54DSAPK MAP kinase; c-Jun kinase 3; JNK3 alpha protein kinase;
XX c-Jun N-terminal kinase 3; stress activated protein kinase beta;
XX chromosome 4q22.1-q23; probe.
XX
OS Homo sapiens.
XX
PN WO2004047623-A2.
XX
PD 10-JUN-2004.
XX
PF 25-NOV-2003; 2003WO-US037948.
XX
PR 25-NOV-2002; 2002US-0429136P.
XX
PR 24-JUL-2003; 2003US-0490234P.
XX
XX (SEQU-) SEQUENOM INC.
XX
PI Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;
XX
XX WPI; 2004-441051/41.
XX
XX Identifying a subject at risk of breast cancer by detecting the presence
PT of polymorphic variations in the ICAM, MAPK10, KIAA0861, NPM1 or GALE
PT regions which are associated with breast cancer in a nucleic acid sample
PT from a subject.
XX
XX Example 5; Page 92; 289pp; English.
XX

CC The invention relates to a novel method for identifying a subject at risk
CC of breast cancer comprising detecting the presence or absence of one or
CC more polymorphic variations associated with breast cancer in a nucleic
CC acid sample from a subject. The method of the invention has cytosolic
CC applications and may be useful for identifying a subject at risk of
CC breast cancer, for early diagnosis, prevention and treatment of breast
CC cancer, possibly via gene therapy, as well as to analyse and predict a
CC response to a breast cancer treatment and in clinical drug trials. The
CC current sequence is that of an extend primer (also described as probe) of
CC the invention which was used to genotype human MAP kinase MAPK10 (JNK3;
CC JNK3A;p493F12;p54DSAPK MAP kinase;c-Jun kinase 3;JNK3 alpha protein
CC kinase;c-Jun N-terminal kinase 3;stress activated protein kinase beta)
CC gDNA which has been mapped to chromosomal position 4q22.1-q23.
XX
SQ Sequence 17 BP; 7 A; 5 C; 4 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 1456 GAGAGAGAGCGGCCCA 1472
DB 1 GAGAGAGAACTGCGCA 17
XX
RESULT 805
ACN65399
ID ACN65399 standard; DNA; 17 BP.
XX
XX ACN65399;
XX
DT 02-DEC-2004 (first entry)
XX
DE Human GDMPL-1 probe SEQ ID NO:2301.
XX
XX Human; ss; probe; myosin-like protein-1; hGDMPL-1;
XX hGDMPL-1 agonist hGDMPL antagonist; hGDMPL inhibitor; heart disorder;
XX skeletal muscle function.
XX
XX Homo sapiens.
XX
XX US2004137589-A1.
XX
PN 15-JUL-2004.
XX
PD 26-NOV-2003; 2003US-00723361.
XX
PF 26-MAY-2000; 2000US-0207456P.
XX
PR 21-SEP-2000; 2000US-0234687P.
XX
PR 27-SEP-2000; 2000US-0236359P.
XX
PR 04-OCT-2000; 2000GB-00024263.
XX
PR 30-JAN-2001; 2001WO-US000661.
XX
PR 30-JAN-2001; 2001WO-US000662.
XX
PR 30-JAN-2001; 2001WO-US000663.
XX
PR 30-JAN-2001; 2001WO-US000664.
XX
PR 30-JAN-2001; 2001WO-US000665.
XX
PR 30-JAN-2001; 2001WO-US000666.
XX
PR 30-JAN-2001; 2001WO-US000667.
XX
PR 30-JAN-2001; 2001WO-US000668.
XX
PR 30-JAN-2001; 2001WO-US000669.
XX
PR 30-JAN-2001; 2001WO-US000670.
XX
PR 05-FEB-2001; 2001US-0266860P.
XX
PR 25-MAY-2001; 2001US-00866108.
XX
XX (GUY/) GU Y.
XX (GUY/) JT Y.
XX (PENNY) PENN S G.
XX (PENNY) HANZEL D K.
XX (RANK/) RANK D.
XX (CHEN/) CHEN W.
XX (SHAN/) SHANNON M E.
XX
PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
XX

```
XX ss; enzymatic nucleic acid; RNA cleavage; hepatitis C virus; HCV;
KW HCV infection; type I interferon; DNAzyme.
XX Hepatitis C virus.
XX US2003125270-A1.
XX 03-JUL-2003.
XX 18-DEC-2000; 2000US-00740332.
XX 18-DEC-2000; 2000US-00740332.
XX PR 18-DEC-2000; 2000US-00740332.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGGEN J.
XX (ROBE/) ROBERTS E.
XX (PAVC/) PAVCO P A.
XX (MACE/) MACEJACK D.
XX PI Blatt L, Mcswiggen J, Roberts E, Pavco PA, Macejack D;
XX WPI; 2004-031273/03.
XX Enzymatic nucleic acid molecules which specifically cleave RNA derived
XX from hepatitis C virus (HCV), useful for the treatment of HCV infections,
XX especially in combination with type I interferon therapy.
XX Claim 1; SEQ ID NO 1906; 198bp; English.
XX The invention relates to an enzymatic nucleic acid molecule which
XX specifically cleaves RNA derived from hepatitis C virus (HCV), in which
XX the binding arms of the enzymatic nucleic acid molecule comprises
XX sequences complementary to any of the defined substrate sequences given
XX in the specification. The nucleic acid molecule may be administered for
XX the treatment of HCV infections, especially in combination with type I
XX interferons. The present sequence represents a HCV DNAzyme substrate
XX sequence.
XX Revised record issued on 22-SEP-2005 : No correction was made to this
XX record
XX Sequence 17 BP; 6 A; 2 C; 7 G; 0 T; 2 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1451 UCAAGGAGGAAGAAGCG 1467
DB 1 UCAGGAGAGUAGAAGCG 17
RESULT 802
AD185893/C
ID AD185893 standard; RNA; 17 BP.
XX AD185893;
XX AC AD185893;
XX 22-SEP-2005 (revised)
XX DT 03-JUN-2004 (first entry)
XX DE HCV DNAzyme substrate sequence #3139.
XX KW ss; enzymatic nucleic acid; RNA cleavage; hepatitis C virus; HCV;
XX HCV infection; type I interferon; DNAzyme.
XX Hepatitis C virus.
XX US2003125270-A1.
XX 03-JUL-2003.
XX
```

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PF 18-DEC-2000; 2000US-00740332.
XX 18-DEC-2000; 2000US-00740332.
XX PR 18-DEC-2000; 2000US-00740332.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGGEN J.
XX (ROBE/) ROBERTS E.
XX (PAVC/) PAVCO P A.
XX (MACE/) MACEJACK D.
XX PI Blatt L, Mcswiggen J, Roberts E, Pavco PA, Macejack D;
XX WPI; 2004-031273/03.
XX Enzymatic nucleic acid molecules which specifically cleave RNA derived
XX from hepatitis C virus (HCV), useful for the treatment of HCV infections,
XX especially in combination with type I interferon therapy.
XX Claim 1; SEQ ID NO 3139; 198bp; English.
XX The invention relates to an enzymatic nucleic acid molecule which
XX specifically cleaves RNA derived from hepatitis C virus (HCV), in which
XX the binding arms of the enzymatic nucleic acid molecule comprises
XX sequences complementary to any of the defined substrate sequences given
XX in the specification. The nucleic acid molecule may be administered for
XX the treatment of HCV infections, especially in combination with type I
XX interferons. The present sequence represents a HCV DNAzyme substrate
XX sequence.
XX Revised record issued on 22-SEP-2005 : No correction was made to this
XX record
XX Sequence 17 BP; 2 A; 2 C; 9 G; 0 T; 4 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.1e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 508 AUCACGAGCGCCGUCAC 524
DB 17 ATCACGAGCCCGCTCAC 1
RESULT 803
AD186711/C
ID AD186711 standard; RNA; 17 BP.
XX AD186711;
XX AC AD186711;
XX 22-SEP-2005 (revised)
XX DT 03-JUN-2004 (first entry)
XX DE HCV DNAzyme substrate sequence #3957.
XX KW ss; enzymatic nucleic acid; RNA cleavage; hepatitis C virus; HCV;
XX HCV infection; type I interferon; DNAzyme.
XX Hepatitis C virus.
XX US2003125270-A1.
XX 03-JUL-2003.
XX 18-DEC-2000; 2000US-00740332.
XX 18-DEC-2000; 2000US-00740332.
XX PR 18-DEC-2000; 2000US-00740332.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGGEN J.
XX (ROBE/) ROBERTS E.
XX (PAVC/) PAVCO P A.
XX (MACE/) MACEJACK D.
XX
```


XX DE Human VEGF receptor 1 (flt-1) DNAzyme target sequence SEQ ID 892.
 XX XX VEGF receptor; angiogenesis; cancer; tumor; ocular disease;
 XX XX diabetic retinopathy; age related macular degeneration;
 XX XX angiogenesis disorder; rheumatoid arthritis; psoriasis; wound healing;
 XX XX endometriosis; endometrial carcinoma; gynecological bleeding disorder;
 XX XX menstrual disorder; premenstrual syndrome; menopause; Gynecological;
 XX XX Cytostatic; Ophthalmological; Antidiabetic; antiangiogenic;
 XX XX Antiproliferative; Antineoplastic; Antiarthritic; Vulnerrary; Hemostatic;
 XX XX Contraceptive; ss; enzymatic nucleic acid.
 XX OS Homo sapiens.
 XX PN WO200296927-A2.
 XX XX 05-DEC-2002.
 XX PF 29-MAY-2002; 2002WO-US017674.
 XX XX 29-MAY-2001; 2001US-00870161.
 XX PR 30-NOV-2001; 2001US-0334461P.
 XX PR 03-MAY-2002; 2002US-00138674.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PA (CHIR) CHIRON CORP.
 XX PI Escobedo J, Mewiggen J, Pavco P, Stinchcomb D, Sandberg J;
 XX PI Gordon G;
 XX DR WPI; 2003-140439/13.
 XX PT Novel enzymatic nucleic acids, ribozymes, which modulate expression of
 PT genes encoding vascular endothelial growth factor and/or VEGF receptor,
 PT useful for inhibiting tumor angiogenesis in cell, and for treating
 PT cancer.
 PS Disclosure; SEQ ID NO 892; 172pp; English.

The invention relates to enzymatic nucleic acids (I) i.e.
 encoding ribozymes/DNAzymes/Zinzymes that target and modulate expression of, genes
 encoding vascular endothelial growth factor (VEGF) and/or VEGF receptor
 (VEGFR1 and 2 encode by the Flt-1 and Kdr genes respectively). Also
 included are a composition comprising (I) and a carrier, administering
 (I) to a cell (by contacting the cell with the compound under conditions
 suitable for the administration), administering (I) to a cell (in
 conjunction with one or more other drug by contacting the cell with the
 compound and the other drug under conditions suitable for the
 administration), administering (I) to a mammal (by contacting the mammal
 with the compound under conditions suitable for the administration),
 treating (M1) a subject having endometriosis (by contacting a subject
 with, or administering to subject, a nucleic acid molecule (II) that
 modulates expression of VEGF, VEGFR1, and/or VEGFR2), a mammalian cell
 (II) comprising (I) and administering to a mammal (I) (in conjunction
 with a chemotherapeutic agent comprising contacting the mammal with the
 compound and the chemotherapeutic agent under conditions suitable for the
 administration). (I) is administered to a mammalian cell, preferably
 human cell in the presence of a delivery reagent which is a lipid such as
 cationic lipid or phospholipid, or a liposome. The enzymatic nucleic acid
 molecule has an endonuclease activity to cleave RNA encoded by an VEGFR1
 and/or VEGFR2 gene, and is in a hammerhead, inozyme, DNAzyme, G-cleaver,
 or Ambertzyme configuration. The enzymatic nucleic acids are useful for
 inhibiting ocular angiogenesis associated with diabetic retinopathy or
 age-related diabetic retinopathy, in a subject. They are also useful for
 inhibiting angiogenesis, preferably tumor angiogenesis in cell, and for
 treating a subject having a condition associated with an increased level
 of VEGF receptor, where the condition is cancer, e.g. breast cancer, lung
 cancer (such as non-small cell lung carcinoma), colorectal cancer, renal
 cancer (such as renal cell carcinoma), pancreatic cancer. The enzymatic
 nucleic acids are useful for treating a subject (preferably human) having
 endometriosis, psoriasis, age-related macular degeneration, proliferative
 diabetic retinopathy, hypoxia-induced angiogenesis, rheumatoid arthritis,
 wound healing, endometrial carcinoma, gynecologic bleeding disorders,

CC irregular menstrual cycles, ovulation, premenstrual syndrome, and
 CC menopausal dysfunction. The enzymatic nucleic acids are useful for birth
 CC control by inhibiting ovulation or embryonic uterine implantation. The
 CC present sequence is a target sequence from the human VEGFR1/Flt-1 mRNA.
 XX
 SQ Sequence 17 BP; 5 A; 6 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 64.7%; Pred. No. 5.1e+02;
 Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 QY 1023 UGCGUGGCGCCCGG 1039
 Db 17 TGCCTGTCGTCGCCCTGG 1
 RESULT 798
 ADP92104
 ID ADF92104 standard; DNA; 17 BP.
 XX
 AC ADF92104;
 XX
 DT 26-FEB-2004 (first entry)
 XX
 DE Human cytokeartin 18-related R3 PCR primer - SEQ ID 192.
 XX
 KW human; cytokeartin; CK; LAMP; loop mediated isothermal amplification;
 KW tumour metastasis; prostate cancer; lymphoma; human; CK18; ss; primer;
 KW PCR; R3.
 XX
 OS Homo sapiens.
 XX
 PN WO2003097878-A1.
 XX
 PD 27-NOV-2003.
 XX
 PF 20-MAY-2003; 2003WO-JP006256.
 XX
 PR 21-MAY-2002; 2002JP-00145689.
 PR 17-JUN-2002; 2002JP-00175271.
 PR 09-JUL-2002; 2002JP-00199759.
 XX
 PA (SYSM-) SYSMEX CORP.
 XX
 PI Tada S, Akai Y, Imura Y, Abe S, Minekawa H;
 XX
 DR WPI; 2004-012543/01.
 XX
 PT LAMP nucleic acid amplification primers for detection of cytokeartin
 PT expression as indicator in diagnosis of tumour metastasis.
 XX
 PS Claim 3; SEQ ID NO 192; 266pp; Japanese.

The invention relates to novel nucleic acid amplification primers for the
 detection of human cytokeartin (CK) 18, 19 or 20 expression by the LAMP
 (loop mediated isothermal amplification) method. The primers of the
 CC invention may be useful for the detecting cytokeartin 18-20 expression as
 CC an indicator for the diagnosis of tumour metastasis, particularly
 CC prostate cancer and lymphoma. The amplification using the primers is
 CC highly efficient and allows very sensitive detection of tumour
 CC metastasis. The current sequence is that of the human CK18-related PCR
 CC primer of the invention.
 XX
 SQ Sequence 17 BP; 2 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
 Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 64.7%; Pred. No. 5.1e+02;
 Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 QY 853 GGCAGUUCUGAAGCUG 869
 Db 1 GGCCTGTCGTCGCCCTGG 17

XX DE Human PKR substrate sequence #1227.
 XX XX antisense oligonucleotide; neurite growth inhibitor; NOGO;
 KW prostaglandin D2 receptor; PTGDR; Ikappab kinase; IKK;
 KW protein kinase PKR; cerebrovascular accident;
 KW central nervous system injury; CNS injury; spinal cord injury; cancer;
 KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;
 KW restenosis; asthma; Crohn's disease; diabetes; obesity;
 KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;
 KW graft rejection; ischemia; reperfusion; glomerulonephritis; sepsis;
 KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PKR;
 KW substrate; ds.
 XX OS Unidentified.
 XX PN WO200281628-A2.
 XX PD 17-OCT-2002.
 XX PF 03-APR-2002; 2002WO-US010512.
 XX PR 05-APR-2001; 2001US-00827395.
 XX PR 29-MAY-2001; 2001US-0294412P.
 XX PR 28-AUG-2001; 2001US-0315315P.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PI Blatt L, Chowrira B, Haeblerli P, Mcswiggen J, Fossnaugh K;
 XX DR WPI; 2003-058513/05.
 XX PT Novel enzymatic nucleic acid that down-regulates expression of neurite
 PT growth inhibitor receptor, prostaglandin D2 receptor, Ikappab kinase or
 PT protein kinase PKR genes, for treating cancer and inflammatory disease.
 XX PS Claim 59; SEQ ID NO 3646; 317bp; English.
 XX CC The invention comprises nucleic acids (e.g. antisense oligonucleotides)
 CC that down regulate the expression or inhibit the function of a receptor
 CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),
 CC Ikappab kinase (IKK), or protein kinase PKR. The nucleic acids of the
 CC invention are useful for treating: cerebrovascular accident, central
 CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,
 CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,
 CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune
 CC disease, lupus, multiple sclerosis, transplant/graft rejection,
 CC ischemia/reperfusion injury, glomerulonephritis, sepsis, and allergic
 CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The
 CC nucleic acids of the invention are also useful for down-regulating the
 CC expression of a target gene and as a diagnostic tool to examine genetic
 CC drifts and mutations within diseased cells or to detect the presence of a
 CC target RNA in a cell. The present RNA sequence represents a human PKR
 CC substrate sequence.
 XX SO Sequence 17 BP; 7 A; 3 C; 3 G; 0 T; 4 U; 0 Other;
 QY Query Match 0.8%; Score 13.8; DB 1; Length 17;
 DB Best Local Similarity 88.2%; Pred. No. 5.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 999 CAGUGACAGUGGAGACA 1015
 DB 1 CAGUGACAGUUNAAACA 17
 RESULT 796
 ADL49742
 ID ADL49742 standard; RNA; 17 BP.
 AC ADL49742;
 XX DT 20-MAY-2004 (first entry)

XX DE Human PKR substrate sequence #856.
 XX XX antisense oligonucleotide; neurite growth inhibitor; NOGO;
 KW prostaglandin D2 receptor; PTGDR; Ikappab kinase; IKK;
 KW protein kinase PKR; cerebrovascular accident;
 KW central nervous system injury; CNS injury; spinal cord injury; cancer;
 KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;
 KW restenosis; asthma; Crohn's disease; diabetes; obesity;
 KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;
 KW graft rejection; ischemia; reperfusion; glomerulonephritis; sepsis;
 KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PKR;
 KW substrate; ds.
 XX OS Unidentified.
 XX PN WO200281628-A2.
 XX PD 17-OCT-2002.
 XX PF 03-APR-2002; 2002WO-US010512.
 XX PR 05-APR-2001; 2001US-00827395.
 XX PR 29-MAY-2001; 2001US-0294412P.
 XX PR 28-AUG-2001; 2001US-0315315P.
 XX PA (RIBO-) RIBOZYME PHARM INC.
 XX PI Blatt L, Chowrira B, Haeblerli P, Mcswiggen J, Fossnaugh K;
 XX DR WPI; 2003-058513/05.
 XX PT Novel enzymatic nucleic acid that down-regulates expression of neurite
 PT growth inhibitor receptor, prostaglandin D2 receptor, Ikappab kinase or
 PT protein kinase PKR genes, for treating cancer and inflammatory disease.
 XX PS Claim 59; SEQ ID NO 3275; 317bp; English.
 XX CC The invention comprises nucleic acids (e.g. antisense oligonucleotides)
 CC that down regulate the expression or inhibit the function of a receptor
 CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),
 CC Ikappab kinase (IKK), or protein kinase PKR. The nucleic acids of the
 CC invention are useful for treating: cerebrovascular accident, central
 CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,
 CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,
 CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune
 CC disease, lupus, multiple sclerosis, transplant/graft rejection,
 CC ischemia/reperfusion injury, glomerulonephritis, sepsis, and allergic
 CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The
 CC nucleic acids of the invention are also useful for down-regulating the
 CC expression of a target gene and as a diagnostic tool to examine genetic
 CC drifts and mutations within diseased cells or to detect the presence of a
 CC target RNA in a cell. The present RNA sequence represents a human PKR
 CC substrate sequence.
 XX SO Sequence 17 BP; 4 A; 2 C; 6 G; 0 T; 5 U; 0 Other;
 QY Query Match 0.8%; Score 13.8; DB 1; Length 17;
 DB Best Local Similarity 88.2%; Pred. No. 5.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1385 CUCUGGCAAGAGUGUU 1401
 DB 1 CUGUGACAGAGAGUGUU 17
 RESULT 797
 AEB58314/c
 ID AEB58314 standard; mRNA; 17 BP.
 AC AEB58314;
 XX DT 22-SEP-2005 (first entry)

Best Local Similarity 58.8%; Pred. No. 5.1e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1589 ACUGGCUUGCCUACAC 1605
||:|:|:|:|:|:|:|:|:|:
DB 17 ACTGATGTCGATGATC 1

RESULT 793

AD149697/C

ID AD149697 standard; DNA; 17 BP.

XX AC AD149697;

DT 15-APR-2004 (first entry)

XX DE Human tumour suppression/reversion-related DNA sequence SegID2200.

XX KM tumour suppression; tumour reversion; apoptosis; virus resistance;

XX KM cytostatic; virucide; neuroprotective; nootropic; viral disease; probe;

XX KM primer; PCR; gene chip; antisense; viral disease; tumour;

XX KM cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.

XX OS Homo sapiens.

XX PN MO2003025177-A2.

XX PD 27-MAR-2003.

XX PF 17-SRP-2002; 2002WO-1B04523.

XX PR 17-SRP-2001; 2001FR-00011980.

XX PA (MOLE-) MOLECULAR ENGINES LAB.

XX PI Telerman A, Amson R, Tuijinder M;

XX DR WPI; 2003-313354/30.

PT New isolated nucleic acid, useful for treating viral diseases associated
PT with tumors and cell degeneration, also related polypeptides, antibodies
PT and transfected cells.

PS Disclosure; SEQ ID NO 2200; 30pp; French.

CC This invention relates to novel isolated nucleic acid sequences involved
CC in the phenomena of tumour suppression, tumour reversion, apoptosis
CC and/or resistance to viruses. The invention may be useful for the
CC development of compounds with a cytostatic, virucide, neuroprotective,
CC nootropic or neuroleptic activity. The DNA sequences may be useful as
CC probes and primers for detecting, identifying, quantifying and/or
CC amplifying nucleic acid, for example as one component of a gene chip, in
CC vitro as antisense reagents and for production of recombinant
CC polypeptides. The invention may therefore be useful for preparation of
CC pharmaceuticals for prevention and/or treatment of viral diseases that
CC are characterised by development of tumours or cell degeneration,
CC specifically cancer but also Alzheimer's disease and schizophrenia. The
CC present sequence is that of a nucleic acid sequence of the invention.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/publishedpct_sequences

XX SQ Sequence 17 BP; 7 A; 3 C; 4 G; 3 T; 0 U; 0 Other;

Query Match

Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;

Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 32 CUUUGUUUCCAAACAC 48

DB 17 CTTGTTCGAGATC 1

RESULT 794
ABX94795
ID ABX94795 standard; DNA; 17 BP.

XX AC ABX94795;

DT 08-JUL-2003 (first entry)

XX DE Beta-actin PCR primer #1.

XX KM Androgen receptor; human; acne; acneform skin disorder; acne rosacea;

XX KM antisense; steroid hormone receptor; steroid hormone metabolising enzyme;

XX KM Salpha-reductase; dermatological; antiestrogenic; sebaceous gland;

XX KM phosphothioate; RT-PCR; primer; beta-actin; ss.

XX OS Unidentified.

XX PN WO2003017917-A2.

XX PD 06-MAR-2003.

XX PF 23-AUG-2002; 2002WO-EP009452.

XX PR 23-AUG-2001; 2001DE-01041443.

XX PA (RINA-) RINA TECHNOLOGIEN GMBH.

XX PA (ZOUB/) ZOUBOULIS C C.

XX PI Zouboulis CC;

XX DR WPI; 2003-278606/27.

PT Use of non-viral agents for treating acne or acneform skin conditions,
PT particularly antisense oligonucleotides directed against androgen
PT receptor or Salpha reductase.

PS Example 1; Page 18; 36pp; German.

CC This invention describes a novel method for treatment of acne and
CC acneform skin disorders, including rosacea, using a non-viral active
CC agent, prepared by molecular biological methods. The method comprises an
CC antisense oligonucleotide; (stabilised) ribozyme; (mirror) aptamer;
CC chimeric RNA/DNA oligonucleotide; naked plasmid DNA or DNA encapsulated
CC in a liposome, especially an antisense oligonucleotide specific for a
CC gene that encodes a steroid hormone receptor or steroid hormone
CC metabolising enzyme, particularly the androgen receptor and/or Salpha-
CC reductase. The products of the invention have dermatological and
CC antiestrogenic activity and can inhibit the androgen-induced stimulation
CC of sebaceous gland activity. The method of the invention provides
CC difficulties associated with reduced side effects and without the
CC represents a RT-PCR primer used to amplify the beta-actin gene, which is
CC used as a control during the amplification of the human androgen receptor
CC described in the disclosure of the invention

XX SQ Sequence 17 BP; 2 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match

Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;

Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 325 AGCCUGGCUUGCCGA 341

DB 1 AGCCTGCGCTTTCGCA 17

RESULT 795

ADL50113

ID ADL50113 standard; RNA; 17 BP.

XX AC ADL50113;

XX DT 20-MAY-2004 (first entry)


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XX 25-JAN-2002; 2002EP-00001160.
PF 30-JAN-2001; 2001WO-US0000666.
XX PR 23-MAY-2001; 2001US-00864761.
XX PR 21-DEC-2001; 2001US-0343331P.
XX
XX PA (ABOM-) ABOMICA INC.
XX
XX Gu Y;
XX WPI; 2003-302724/30.
XX
XX New human sodium-hydrogen exchanger like protein 1 (NHEPL1), useful as a
XX passive replacement therapy or as a vaccine for treating or preventing
XX disorders associated with aberrant expression or activity of human
XX NHEPL1.
XX
XX Example 2; SEQ ID NO 600; 468bp; English.
XX
XX The invention relates to a nucleic acid molecule which encodes a Na+/H+
XX exchanger like protein (NHEPL1). The NHEPL1 nucleic acid molecule, NHEPL1
XX polypeptide, an antibody against the protein or its antigen-binding
XX fragment is useful in therapy. The NHEPL1 nucleic acid molecule, NHEPL1
XX polypeptide and an agonist are particularly useful for manufacturing a
XX medicament for treating or preventing a disorder associated with
XX decreased expression or activity of human NHEPL1. The antibody or its
XX antigen-binding fragment, and an antagonist are useful for manufacturing
XX a medicament for treating or preventing a disorder associated with
XX increased expression or activity of human NHEPL1. The NHEPL1 nucleic acid
XX or protein is useful as passive replacement therapy, as a vaccine, or in
XX diagnostic methods. This sequence corresponds to a 17-mer oligonucleotide
XX spanning the sequence of the human NHEPL1 gene (ADC03514).
XX
XX Sequence 17 BP; 2 A; 7 C; 3 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 58.8%; Pred. No. 5.1e+02;
XX Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
XX
XX 1087 GCCAUCUACUCCAUCCGU 1103
XX |||::|::|::|::|::|
XX 1 GCCATCTCTCGATCGT 17
XX
XX RESULT 789
XX ADC37820
XX ID ADC37820 standard; DNA; 17 BP.
XX AC
XX ADC37820;
XX
XX 18-DEC-2003 (first entry)
XX
XX Human AMLP1a scanning 17-mer oligonucleotide SEQ ID NO:169.
XX DE
XX human; angiotensin-like protein 1; AMLP1; cyrostatic; gene therapy;
XX KW AMLP1a; ss.
XX
XX Synthetic.
XX OS Homo sapiens.
XX
XX WO2003037931-A2.
XX PN
XX 08-MAY-2003.
XX PD
XX 01-NOV-2002; 2002WO-US035129.
XX PF
XX 01-NOV-2001; 2001US-0334773P.
XX PR
XX (AMSH ) AMERSHAM BIOSCIENCES SV CORP.
XX PA
XX Shannon M, Phan T;
XX PI
XX

```

DR WP1; 2003-430501/40.

XX New isolated nucleic acid molecule encoding a human angiominin-like

PT protein, useful for treating or preventing a disorder associated with

PR decreased or increased expression or activity of AMLP1.

PS Example 2; SEQ ID NO 169; 172pp; English.

XX The present invention describes the human angiominin-like protein 1

CC (AMLPI). human AMLPI has cytostatic activity, and can be used in gene

CC therapy. The AMLPI protein, nucleic acid molecules, antibodies, and

CC compositions of the present invention can be used for treating or

CC preventing a disorder associated with decreased or increased expression

CC or activity of AMLPI. The present sequence represents a scanning

CC oligonucleotide for human AMLPIA, which is used in an example from the

CC present invention.

XX

SQ Sequence 17 BP; 7 A; 5 C; 5 G; 0 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0

OY 1709 AGCAGCAGGACCGAGCAG 1725
DB 1 AGCAGCAGCAGCAGCAG 17
|||||
|||

RESULT 790

ADB45399 standard; DNA; 17 BP.

AC ADB45399;

XX ADB45399;

DT 18-DEC-2003 (first entry)

DE Tumour suppression/reversion associated nucleotide #5722.

XX cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;

KW primer; probe; tumour suppression; tumour reversion; apoptosis;

KM virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;

KM diagnosis.

OS Homo sapiens.

PN MO2003040369-A2.

PD 15-MAY-2003.

PF 17-SEP-2002; 2002MO-IB004219.

PR 17-SEP-2001; 2001FR-00011981.

PA (MOLE-) MOLECULAR ENGINES LAB.

PL Telemann A, Amson R, Thijnder M;

DR WP1; 2003-441574/41.

XX New nucleic acid encoding human prostate membrane-specific antigen,

PT useful e.g. for treatment of tumors and viral infection, also related

PT polypeptide and antibodies.

PS Disclosure; Page 700; 771pp; French.

XX The invention relates to the isolation of 6327 nucleotide sequences,

CC fragments of at least 15 consecutive nucleotides of these nucleotides, a

CC sequence having at least 80% identity, after optimal alignment, with the

CC nucleotides, a sequence that hybridizes under stringent conditions with

CC the nucleotides, or the complement, or corresponding RNA, of the

CC nucleotides. The nucleotides are used as probes or primers for detecting,

CC identifying, quantifying and/or amplifying nucleic acids, as in vitro

CC sense and antisense sequences, of nucleotides involved in tumour

QY 1060 GAGGAGACAUGCACUC 1076
 ||||| :||| :
 Db 17 GAGGAGGCACTTGATC 1

RESULT 784
 ACC64254
 ID ACC64254 standard; DNA; 17 BP.
 XX
 AC ACC64254;
 XX
 DT 01-JUL-2003 (first entry)
 XX
 DE Murine oligonucleotide associated with tumour suppression, SEQ ID 1501.
 XX
 KM Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;
 KM tumour suppression; tumour reversion; apoptosis; virus resistance;
 KM viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;
 KM schizophrenia; ss.
 XX
 XX Mus musculus.
 OS
 XX WO2003025176-A2.
 XX
 XX 27-MAR-2003.
 XX
 XX 17-SEP-2002; 2002WO-IB004210.
 XX
 XX 17-SEP-2001; 2001FR-00011979.
 XX
 XX (MOLE-) MOLECULAR ENGINES LAB.
 XX
 XX Pi Telerman A, Amson R, Tuijnder M;
 XX WPI; 2003-333167/31.
 XX
 XX New isolated nucleic acid, useful for treating viral diseases associated
 PT with tumours and cell degeneration, also related polypeptides, antibodies
 PT and transfected cells.
 XX
 XX Disclosure; Page 206; 738pp; French.
 XX
 XX The present invention relates to murine oligonucleotides (ACC62754-
 CC ACC68806), which are associated with tumour suppression, tumour
 CC reversion, apoptosis and virus resistance. The oligonucleotides are
 CC useful as (1) as probes and primers for detecting, identifying,
 CC quantifying and/or amplifying nucleic acid, e.g. as one component of a
 CC gene chip; in vitro as (anti)sense reagents; and (2) for production of
 CC recombinant polypeptides. The oligonucleotides are useful for preparation
 CC of pharmaceuticals for prevention and/or treatment of viral diseases
 CC are characterised by development of tumours or cell degeneration,
 CC specifically cancer but also Alzheimer's disease and schizophrenia.
 XX
 XX Sequence 17 BP; 6 A; 4 C; 4 G; 3 T; 0 U; 0 Other;
 SQ

Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 76.5%; Pred. No. 5.1e+02;
 Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 954 GAGCUGGAACCCAGCU 970
 ||||| :||| :
 Db 1 GATCTGGAACCCAGAT 17

RESULT 785
 ADB41161
 ID ADB41161 standard; DNA; 17 BP.
 XX
 AC ADB41161;
 XX
 DT 18-DEC-2003 (revised)
 XX 04-DEC-2003 (first entry)
 XX

DE Tumour suppression/reversion associated nucleotide #1484.
 XX
 XX Cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;
 KM primer; probe; tumour suppression; tumour reversion; apoptosis;
 KM virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;
 KM diagnosis.
 XX
 XX Homo sapiens.
 OS
 XX WO2003040369-A2.
 XX
 XX 15-MAY-2003.
 XX
 XX 17-SEP-2002; 2002WO-IB004219.
 XX
 XX 17-SEP-2001; 2001FR-00011981.
 XX
 XX (MOLE-) MOLECULAR ENGINES LAB.
 XX
 XX Pi Telerman A, Amson R, Tuijnder M;
 XX WPI; 2003-441574/41.
 XX
 XX New nucleic acid encoding human prostate membrane-specific antigen,
 PT useful e.g. for treatment of tumours and viral infection, also related
 PT polypeptide and antibodies.
 XX
 XX Disclosure; Page 205; 771pp; French.
 XX
 XX The invention relates to the isolation of 6327 nucleotide sequences,
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a
 CC sequence having at least 80% identity, after optimal alignment, with the
 CC nucleotides; a sequence that hybridizes under stringent conditions with
 CC the nucleotides, or the complement, or corresponding RNA, of the
 CC nucleotides. The nucleotides are used as probes or primers for detecting,
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro
 CC sense and antisense sequences, of nucleotides involved in tumour
 CC suppression or reversion, apoptosis and/or viral resistance, to produce
 CC recombinant polypeptides, and to prepare transgenic animals, as
 CC experimental models. The nucleotides (also vectors containing them and
 CC cells containing the vectors), the encoded polypeptides and antibodies
 CC (Ab) against the polypeptide are useful for prevention and/or treatment
 CC of viral infections or diseases characterized by development of tumours
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).
 CC Analysis of the expression of the nucleotides can be used for diagnosis
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can
 CC potentially be used to screen for their specific interactive molecules,
 CC expression of the nucleotides.
 XX
 XX Sequence 17 BP; 9 A; 2 C; 5 G; 1 T; 0 U; 0 Other;
 SQ

Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 5.1e+02;
 Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1449 GGUCAAGGAGGAAG 1465
 ||||| :||| :
 Db 1 GATCAAGCAGAGGAAG 17

RESULT 786
 ADB4177/c
 ID ADB4177 standard; DNA; 17 BP.
 XX
 AC ADB4177;
 XX
 DT 18-DEC-2003 (revised)
 XX 04-DEC-2003 (first entry)
 XX
 DE Tumour suppression/reversion associated nucleotide #4500.
 XX
 XX Cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;

XX Claim 1: Page 305; 387pp; English.

PS The present invention relates to nucleic acid molecules which modulate

CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or

CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense

CC and enzymatic nucleic acids such as hammerhead ribozymes, DNAsymes,

CC inozymes, zincymes, amberzymes, and G-cleaver ribozymes. Also disclosed

CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse

CC transcriptase and/or HBV reverse transcriptase primer sequences, as well

CC as oligonucleotides that specifically bind the Enhancer 1 region of HBV

CC DNA. The nucleic acids may be used to modulate the expression of HBV

CC genes and HBV viral replication. Also disclosed is a method for screening

CC compounds and/or potential therapies directed against HBV, and compounds

CC that modulate the expression and/or replication of HCV. The compounds and

CC methods of the invention are useful for the treatment of degenerative and

CC disease states related to HBV and HCV infection, replication and gene

CC expression such as cirrhosis, liver failure, and hepatocellular

CC carcinoma. The present sequence represents a substrate for one of the HCV

CC DNAsyme or minus strand DNAsyme sequences disclosed in the present

CC invention

CC Sequence 17 BP; 2 A; 5 C; 5 G; 0 T; 5 U; 0 Other;

XX SQ

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 5.1e+02;

Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1230 CCAGAGAGCGGACG 1246

DB 17 CCAGAGACATGTCGACG 1

RESULT 782

ACC67984/C

XX ID ACC67984 standard; DNA; 17 BP.

XX AC ACC67984;

XX DT 01-JUL-2003 (first entry)

DE Murine oligonucleotide associated with tumour suppression, SEQ ID 5231.

XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;

XX tumour suppression; tumour reversion; apoptosis; virus resistance;

XX viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;

XX schizophrenia; ss.

XX OS Mus musculus.

XX PN WO2003025176-A2.

XX PD 27-MAR-2003.

XX PF 17-SEP-2002; 2002WO-IB004210.

XX PR 17-SEP-2001; 2001FR-00011979.

XX PA (MOLE-) MOLECULAR ENGINES LAB.

XX PI Telerman A, Amson R, Tuijinder M;

XX DR WPI; 2003-333167/31.

XX DR WPI; 2003-333167/31.

XX PT New isolated nucleic acid, useful for treating viral diseases associated

XX with tumours and cell degeneration, also related polypeptides, antibodies

XX and transfected cells.

XX PS Disclosure; Page 642; 738pp; French.

XX CC The present invention relates to murine oligonucleotides (ACC62754-ACC6806), which are associated with tumour suppression, tumour reversion, apoptosis and virus resistance. The oligonucleotides are

CC useful as (1) as probes and primers for detecting, identifying,

CC quantifying and/or amplifying nucleic acid, e.g. as one component of a

CC gene chip; in vitro as (anti)sense reagents; and (2) for production of a

CC recombinant polypeptides. The oligonucleotides are useful for preparation

CC of pharmaceuticals for prevention and/or treatment of viral diseases that

CC are characterised by development of tumours or cell degeneration,

CC specifically cancer but also Alzheimer's disease and schizophrenia

XX SQ

Sequence 17 BP; 3 A; 6 C; 2 G; 6 T; 0 U; 0 Other;

XX SQ

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 70.6%; Pred. No. 5.1e+02;

Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1060 GAGAGGACAUUGGCTC 1076

DB 17 GAGAGGACATGTCATC 1

RESULT 783

ACC67516/C

XX ID ACC67516 standard; DNA; 17 BP.

XX AC ACC67516;

XX DT 01-JUL-2003 (first entry)

DE Murine oligonucleotide associated with tumour suppression, SEQ ID 4763.

XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;

XX tumour suppression; tumour reversion; apoptosis; virus resistance;

XX viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;

XX schizophrenia; ss.

XX OS Mus musculus.

XX PN WO2003025176-A2.

XX PD 27-MAR-2003.

XX PF 17-SEP-2002; 2002WO-IB004210.

XX PR 17-SEP-2001; 2001FR-00011979.

XX PA (MOLE-) MOLECULAR ENGINES LAB.

XX PI Telerman A, Amson R, Tuijinder M;

XX DR WPI; 2003-333167/31.

XX DR WPI; 2003-333167/31.

XX PT New isolated nucleic acid, useful for treating viral diseases associated

XX with tumours and cell degeneration, also related polypeptides, antibodies

XX and transfected cells.

XX PS Disclosure; Page 587; 738pp; French.

XX CC The present invention relates to murine oligonucleotides (ACC62754-ACC6806), which are associated with tumour suppression, tumour reversion, apoptosis and virus resistance. The oligonucleotides are

CC useful as (1) as probes and primers for detecting, identifying,

CC quantifying and/or amplifying nucleic acid, e.g. as one component of a

CC gene chip; in vitro as (anti)sense reagents; and (2) for production of

CC recombinant polypeptides. The oligonucleotides are useful for preparation

CC of pharmaceuticals for prevention and/or treatment of viral diseases that

CC are characterised by development of tumours or cell degeneration,

CC specifically cancer but also Alzheimer's disease and schizophrenia

XX SQ

Sequence 17 BP; 3 A; 8 C; 2 G; 4 T; 0 U; 0 Other;

XX SQ

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 70.6%; Pred. No. 5.1e+02;

Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

SQL Sequence 17 BP; 6 A; 2 C; 7 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1451 UCNAAGGAGAAAGCG 1467
|||||
DB 1 UCNAAGGAGAAAGCG 17

RESULT 780
ACD51564/c
ID ACD51564 standard; RNA; 17 BP.
XX
AC ACD51564;
XX
DT 24-SEP-2003 (first entry)
XX
DE HBV hammerhead ribozyme substrate sequence #622.
XX
XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
KM RNA stability; RNA expression; RNA synthesis; antisense;
KM enzymatic nucleic acid; hammerhead ribozyme; DNzyme; zinzyme;
KM amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
KM HBV reverse transcriptase; Enhancer I region; viral replication;
KM degenerative; disease state; HBV infection; HCV infection; cirrhosis;
KM liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
KM virucide; antiinflammatory; substrate; ss.
XX
XX Hepatitis B virus.
XX
XX WO200281494-A1.
XX
PD 17-OCT-2002.
XX
PF 26-MAR-2002; 2002WO-US009187.
XX
PR 26-MAR-2001; 2001US-00817879.
PR 08-JUN-2001; 2001US-00877478.
PR 08-JUN-2001; 2001US-0296876P.
PR 24-OCT-2001; 2001US-0335059P.
PR 05-DEC-2001; 2001US-0337055P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA (BLAT/) BLATT L.
PA (MACE/) MACEJAK D.
PA (MCSW/) MCSWIGGEN J.
PA (MORR/) MORRISSEY D.
PA (PAVC/) PAVCO P.
PA (LEBP/) LEE P.
PA (DRAP/) DRAPER K.
PA (ROBE/) ROBERTS E.
XX
PI Blat L, Macejak D, Mcswigen J, Morrissey D, Pavco P, Lee P;
PI Draper K, Roberts E;
XX
DR WPI; 2003-229207/22.
XX
PT Novel compound useful for treating cirrhosis, liver failure,
PT hepatocellular carcinoma, or condition associated with hepatitis C virus
PT infection.
XX
PS Example 1; Page 148; 387pp; English.

CC The present invention relates to nucleic acid molecules which modulate
CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
CC and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,
CC inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
CC as oligonucleotides that specifically bind the Enhancer I region of HBV

CC DNA. The nucleic acids may be used to modulate the expression of HBV
CC genes and HBV viral replication. Also disclosed is a method for screening
CC compounds and/or potential therapies directed against HBV, and compounds
CC that modulate the expression and/or replication of HCV. The compounds and
CC methods of the invention are useful for the treatment of degenerative and
CC disease states related to HBV and HCV infection, replication and gene
CC expression such as cirrhosis, liver failure, and hepatocellular
CC carcinoma. The present sequence represents a substrate for one of the HBV
CC ribozyme, inozyme, G-cleaver, zinzyme, DNzyme or amberzyme sequences
CC disclosed in the present invention
XX

SQL Sequence 17 BP; 4 A; 4 C; 3 G; 0 T; 6 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 5.1e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 828 GACGAAACUUGUCC 844
|||||
DB 17 GACGAAAGATTGTCC 1

RESULT 781
ACD64713/c
ID ACD64713 standard; RNA; 17 BP.
XX
AC ACD64713;
XX
DT 30-SEP-2003 (first entry)
XX
DE HCV minus strand DNzyme substrate sequence #1680.
XX
XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
KM RNA stability; RNA expression; RNA synthesis; antisense;
KM enzymatic nucleic acid; hammerhead ribozyme; DNzyme; zinzyme;
KM amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
KM HBV reverse transcriptase; Enhancer I region; viral replication;
KM degenerative; disease state; HBV infection; HCV infection; cirrhosis;
KM liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
KM virucide; antiinflammatory; substrate; ss.
XX
XX Hepatitis C virus.
XX
XX WO200281494-A1.
XX
PD 17-OCT-2002.
XX
PF 26-MAR-2002; 2002WO-US009187.
XX
PR 26-MAR-2001; 2001US-00817879.
PR 08-JUN-2001; 2001US-00877478.
PR 08-JUN-2001; 2001US-0296876P.
PR 24-OCT-2001; 2001US-0335059P.
PR 05-DEC-2001; 2001US-0337055P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA (BLAT/) BLATT L.
PA (MACE/) MACEJAK D.
PA (MCSW/) MCSWIGGEN J.
PA (MORR/) MORRISSEY D.
PA (PAVC/) PAVCO P.
PA (LEBP/) LEE P.
PA (DRAP/) DRAPER K.
PA (ROBE/) ROBERTS E.
XX
PI Blat L, Macejak D, Mcswigen J, Morrissey D, Pavco P, Lee P;
PI Draper K, Roberts E;
XX
DR WPI; 2003-229207/22.
XX
PT Novel compound useful for treating cirrhosis, liver failure,
PT hepatocellular carcinoma, or condition associated with hepatitis C virus
PT infection.

KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;
 KW amberyze; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW virucide; antiinflammatory; substrate; ss.

OS Hepatitis C virus.

PN WO200281494-A1.

PD 17-OCT-2002.

PF 26-MAR-2002; 2002WO-US009187.

PR 26-MAR-2001; 2001US-00817879.

PR 08-JUN-2001; 2001US-00877478.

PR 08-JUN-2001; 2001US-0296876P.

PR 24-OCT-2001; 2001US-0335059P.

PR 05-DEC-2001; 2001US-0337055P.

PA (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MACE/) MACEJAK D.

PA (MCSW/) MCSWIGGEN J.

PA (MORR/) MORRISSEY D.

PA (PVC/) PAVCO P.

PA (LEBP/) LEE P.

PA (DRAP/) DRAPER K.

PA (ROBE/) ROBERTS E.

PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

PI Draper K, Roberts E;

DR WPI; 2003-229207/22.

PT Novel compound useful for treating cirrhosis, liver failure,

PT hepatocellular carcinoma, or condition associated with hepatitis C virus

PT infection.

PS Claim 1; Page 259; 387pp; English.

CC The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes,
 CC inozymes, zinzymes, amberyzes, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNAzyme or minus strand DNAzyme sequences disclosed in the present
 CC invention

SO Sequence 17 BP; 4 A; 9 C; 2 G; 0 T; 2 U; 0 Other;

QY Query Match 0.8%; Score 13.8; DB 1; Length 17;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 507 CAUACGAGGCGGCUCA 523

DB 1 CAUACGAGGCGGCUCA 17

RESULT 779

ACD60608

ID ACD60608 strand; RNA; 17 BP.

AC ACD60608;

DT 24-SEP-2003 (first entry)

DE HCV DNAzyme substrate sequence #1906.

KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
 KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;
 KW amberyze; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW virucide; antiinflammatory; substrate; ss.

OS Hepatitis C virus.

PN WO200281494-A1.

PD 17-OCT-2002.

PF 26-MAR-2002; 2002WO-US009187.

PR 26-MAR-2001; 2001US-00817879.

PR 08-JUN-2001; 2001US-00877478.

PR 08-JUN-2001; 2001US-0296876P.

PR 24-OCT-2001; 2001US-0335059P.

PR 05-DEC-2001; 2001US-0337055P.

PA (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MACE/) MACEJAK D.

PA (MCSW/) MCSWIGGEN J.

PA (MORR/) MORRISSEY D.

PA (PVC/) PAVCO P.

PA (LEBP/) LEE P.

PA (DRAP/) DRAPER K.

PA (ROBE/) ROBERTS E.

PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

PI Draper K, Roberts E;

DR WPI; 2003-229207/22.

PT Novel compound useful for treating cirrhosis, liver failure,

PT hepatocellular carcinoma, or condition associated with hepatitis C virus

PT infection.

PS Claim 1; Page 268; 387pp; English.

CC The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes,
 CC inozymes, zinzymes, amberyzes, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNAzyme or minus strand DNAzyme sequences disclosed in the present
 CC invention

KW	enzymatic nucleic acid; H-Ras; N-Ras; HIV, cytostatic; anti-HIV;
KW	anti-rheumatic; cancer; AIDS; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO200297114-A2.
XX	
XX	05-DEC-2002.
PD	
XX	
PF	29-MAY-2002; 2002WO-US016840.
XX	
PR	29-MAY-2001; 2001US-0294140P.
XX	
PR	06-JUN-2001; 2001US-0296249P.
XX	
PR	10-SEP-2001; 2001US-0318471P.
PA	
XX	(RIBO-) RIBOZYME PHARM INC.
PI	
XX	McsWiggen J;
XX	
DR	WPI; 2003-140484/13.
XX	
PT	Novel short interfering RNA and enzymatic nucleic acid useful for
XX	treating cancer, modulates the expression of a nucleic acid encoding
PT	HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX	
PS	Claim 4; Page 151; 185pp; English.
XX	
CC	The invention relates to a novel short interfering RNA (siRNA) nucleic
CC	acid molecule or an enzymatic nucleic acid molecule, that modulates
CC	expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC	human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC	acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC	rheumatic activity. The nucleic acid molecules are useful for reducing
CC	HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC	also useful for treating breast, ovarian, colorectal, lung, prostate,
CC	bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC	shown in ABZ55889 - ABZ62216, ABZ64544 - ABZ65511, ABZ66520 - ABZ66524,
CC	ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC	ribozymes of the invention
XX	
XX	Sequence 17 BP; 3 A; 3 C; 7 G; 0 T; 4 U; 0 Other;
SO	
Query Match	0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity	88.2%; Pred. No. 5,1e+02;
Matches 15; Conservative	0; Mismatches 2; Indels 0; Gaps 0
QY	406 UUAGGAACTUCGCTCG 422
DB	1 UUAGGAACTUCGCTCG 17
RESULT 777	
ACSD63055/C	
ID	ACD63055 standard; RNA; 17 BP.
XX	
XX	ACD63055;
XX	
DT	24-SEP-2003 (first entry)
XX	
XX	
DE	HCV minus strand DNAzyme substrate sequence #862.
XX	
Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;	
KW	RNA stability; RNA expression; RNA synthesis; antisense;
KW	enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;
KW	amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
KW	HBV reverse transcriptase; Enhancer 1 region; viral replication;
KW	degenerative; disease state; HBV infection; HCV infection; cirrhosis;
KW	liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
XX	virucide; antiinflammatory; substrate; ss.
XX	
OS	Hepatitis C virus.
XX	
XX	WO200281494-A1.

XX	17-OCT-2002.
PD	
XX	
PF	26-MAR-2002; 2002WO-US009187.
XX	
PR	26-MAR-2001; 2001US-00817879.
PR	08-JUN-2001; 2001US-00877478.
PR	08-JUN-2001; 2001US-0296876P.
PR	24-OCT-2001; 2001US-0335059P.
PR	05-DEC-2001; 2001US-0337055P.
XX	
PA	(RIBO-) RIBOZYME PHARM INC.
PA	(BLAT/) BLATT L.
PA	(MACE/) MACEJAK D.
PA	(MCSW/) MCSWIGEN J.
PA	(MORR/) MORRISSEY D.
PA	(PAYC/) PAYCO P.
PA	(LEEP/) LEE P.
PA	(DRAP/) DRAPER K.
PA	(ROBE/) ROBERTS E.
XX	
PI	Blatt L., Macejak D., Mcswigen J., Morrissey D., Pavco P., Lee P;
PI	Draper K., Roberts E.
DR	WPI; 2003-229207/22.
XX	
Novel	Compound useful for treating cirrhosis, liver failure,
PT	hepatocellular carcinoma, or condition associated with hepatitis C virus
PT	infection.
PS	
XX	
Claim	1; Page 290; 387pp; English.
XX	
CC	The present invention relates to nucleic acid molecules which modulate
CC	the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
CC	Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
CC	and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
CC	inoyzemes, zinzymes, ambeizymes, and G-cleaver ribozymes. Also disclosed
CC	are nucleic acid decoy molecules and aptamers that bind to HBV reverse
CC	transcriptase and/or HBV reverse transcriptase primer sequences, as well
CC	as oligonucleotides that specifically bind the Enhancer I region of HBV
CC	DNA. The nucleic acids may be used to modulate the expression of HBV
CC	genes and HBV viral replication. Also disclosed is a method for screening
CC	compounds and/or potential therapies directed against HBV, and compounds
CC	that modulate the expression and/or replication of HCV. The compounds and
CC	methods of the invention are useful for the treatment of degenerative and
CC	disease states related to HBV and HCV infection, replication and gene
CC	expression such as cirrhosis, liver failure, and hepatocellular
CC	carcinoma. The present sequence represents a substrate for one of the HCV
CC	DNzyme or minus strand DNzyme sequences disclosed in the present
CC	invention
XX	
SQ	Sequence 17 BP; 2 A; 2 C; 9 G; 0 T; 4 U; 0 Other;
Query Match	0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity	76.5%; Pred.No. 5.1e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;	
OY	508 AUCACGAGCGCCGCTCAC 524
DB	17 ATCACACGCCGCTCAC 1
RESULT 778	
ACDS59614	
ID	ACDS59614 standard; RNA; 17 BP.
XX	
ACD59614;	
XX	
DT	24-SEP-2003 (first entry)
XX	
DB	HCV DNzyme substrate sequence #416.
KW	Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

Best Local Similarity 58.8%; Pred. No. 5.1e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1314 UAGAAGCUCUAGCGUCA 1330

DB 1 TAAAGACTTCTCACCTCA 17

RESULT 774

ADB03585
ADB03585 standard; DNA; 17 BP.

AC ADB03585;

DT 20-NOV-2003 (first entry)

DE Human MD27 scanning oligonucleotide SEQ ID 4571.

XX Cytostatic; immunostimulant; gene therapy; vaccine; human;

KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
KM chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.

OS Homo sapiens.

PN EP1281758-A2.

PD 05-FEB-2003.

PF 30-JUL-2002; 2002EP-00016874.

PR 02-AUG-2001; 2001US-00922181.

PA (AECOM-) AECOMICA INC.

PI Shannon M, Gu Y, Nguyen C;

DR WPI; 2003-423107/40.

PT New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT MD24, MD27 or MD212, e.g. cancer.

PS Example 8; SEQ ID NO 4571; 103bp; English.

XX The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.

XX Sequence 17 BP; 4 A; 7 C; 1 G; 5 T; 0 U; 0 Other;

QY Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 58.8%; Pred. No. 5.1e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1313 CUAAGCUCUAGCGUC 1329

DB 1 CTAAGACTTCTCACCTC 17

RESULT 775

ABZ64829
ID ABZ64829 standard; RNA; 17 BP.

XX ABZ64829;

DT 21-MAR-2003 (first entry)

DE Human HER2 DNAzyme substrate #286.

XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;

KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosolic; anti-HIV;
KM anti-rheumatic; cancer; AIDS; ss.

OS Homo sapiens.

PN WO200297114-A2.

PD 05-DEC-2002.

PF 29-MAY-2002; 2002WO-US016840.

PR 29-MAY-2001; 2001US-0294140P.

PR 06-JUN-2001; 2001US-0296249P.

PR 10-SEP-2001; 2001US-0318471P.

PA (RIBO-) RIBOZYME PHARM INC.

PI Mcswigen J;

DR WPI; 2003-140484/13.

PT Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding

PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.

PS Claim 4; Page 138; 185bp; English.

XX The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytosolic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention

XX Sequence 17 BP; 2 A; 3 C; 7 G; 0 T; 5 U; 0 Other;

QY Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1626 GUGCUAUGGUCUGGCA 1642

DB 1 GUGCUAUGGUCUGGCA 17

RESULT 776

ABZ65495
ID ABZ65495 standard; RNA; 17 BP.

XX ABZ65495;

DT 21-MAR-2003 (first entry)

DE Human HER2 DNAzyme substrate #952.

XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;

therapies such as monoclonal antibodies, RET-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubicin, fluorouracil carboplatin, edotrextate, gemtabin or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule

Sequence 17 BP; 2 A; 10 C; 3 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.1e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

1175 CTGAGAGAGCGGCGG 1191
17 CTGAGAGAGCGCTGGGG 1

RESULT 772

ADB05992
ID ADB05992 standard; DNA; 17 BP.

AC ADB05992;

DT 20-NOV-2003 (first entry)

DE Human MD212 scanning oligonucleotide SEQ ID 6978.

Cytostatic; immunostimulant; gene therapy; vaccine; human;
zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
developmental disorder; ss.

OS Homo sapiens.

PN EP1281758-A2.

PD 05-FEB-2003.

PF 30-JUL-2002; 2002EP-00016874.

PR 02-AUG-2001; 2001US-00922181.

PA (AEOM-) AEOMICA INC.

PI Shannon M, Gu Y, Nguyen C;

XX WPI; 2003-423107/40.

DR New zinc finger-containing proteins and nucleic acids, useful in

PT manufacturing a medicament for treating or preventing a disorder

PT associated with decreased or increased expression or activity of MD23,

PT MD24, MD27 or MD212, e.g. cancer.

XX Example 8; SEQ ID NO 6978; 103pp; English.

XX The present invention relates to novel human zinc finger-containing
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
XX or in manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
XX acids and proteins are also useful for diagnosing or monitoring a disease
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
XX acids can also be used as probes to detect and characterize gross

alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.

Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 5.1e+02;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

1313 CUAAGACUUCUAGCGC 1329
1 CTGAGACTTCTGAGGTC 17

RESULT 773

ADB03586
ID ADB03586 standard; DNA; 17 BP.

AC ADB03586;

DT 20-NOV-2003 (first entry)

DE Human MD27 scanning oligonucleotide SEQ ID 4572.

Cytostatic; immunostimulant; gene therapy; vaccine; human;
zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
developmental disorder; ss.

OS Homo sapiens.

PN EP1281758-A2.

PD 05-FEB-2003.

PF 30-JUL-2002; 2002EP-00016874.

PR 02-AUG-2001; 2001US-00922181.

PA (AEOM-) AEOMICA INC.

PI Shannon M, Gu Y, Nguyen C;

XX WPI; 2003-423107/40.

DR New zinc finger-containing proteins and nucleic acids, useful in

PT manufacturing a medicament for treating or preventing a disorder

PT associated with decreased or increased expression or activity of MD23,

PT MD24, MD27 or MD212, e.g. cancer.

XX Example 8; SEQ ID NO 4572; 103pp; English.

XX The present invention relates to novel human zinc finger-containing
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
XX or in manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
XX acids and proteins are also useful for diagnosing or monitoring a disease
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
XX acids can also be used as probes to detect and characterize gross
XX alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
XX useful in constructing microarrays for measuring gene expression. The
XX proteins are useful as therapeutic agents for gene therapy or as
XX vaccines. The present sequence was used to illustrate the invention.

Sequence 17 BP; 5 A; 6 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;

AC ACA06557;
 XX 03-JUN-2003. (first entry)
 DT
 XX NFKB sub-unit modulating inozyme substrate #376.
 DE
 XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;
 KM G-cleaver; amberyze; cancer; RBL-A activity; breast cancer; human;
 KM lung cancer; prostate cancer; colorectal cancer; brain cancer;
 KM oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
 KM cervical cancer; head and neck cancer; ovarian cancer; melanoma;
 KM lymphoma; glioma; multidrug resistant cancer; RBL-A-specific inhibitor;
 KM chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;
 KM cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;
 KM gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;
 KM rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischemia;
 KM gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
 KM transplant/graft rejection; reperfusion injury; glomerulonephritis;
 KM allergic airway inflammation; inflammatory bowel disease; infection; ss.
 XX
 OS Homo sapiens.
 XX
 PN US2002177568-A1.
 XX
 XX 28-NOV-2002.
 PD
 XX 23-MAY-2001; 2001US-00864785.
 PF
 XX 07-DEC-1992; 92US-00987132.
 PR 18-MAY-1994; 94US-00245466.
 PR 15-AUG-1994; 94US-00291932.
 PR 23-DEC-1996; 96US-00777916.
 XX
 PA (STIN/) STINCHOMB D T.
 PA (MCSW/) MCSWIGGEN J.
 PA (DRAP/) DRAPER K G.
 XX
 PI Stinchcomb DT, Mcswiggen J, Draper KG;
 DR WPI; 2003-340953/32.
 XX
 PT Novel enzymatic nucleic acid molecules which down regulates expression of
 PT a sequence encoding a subunit of nuclear factor kappa B useful for
 PT treating cancer, inflammatory disorders and autoimmune diseases.
 XX
 PS Claim 3; Page 32; 72pp; English.
 XX
 CC The invention describes an enzymatic nucleic acid molecule (I) which down
 CC regulates expression of a sequence encoding a subunit of nuclear factor
 CC kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberyze
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat
 CC cancer and is useful for down-regulating RBL-A activity in a cell, for
 CC treating a patient having a condition associated with the level of RBL-A.
 CC (I) is useful for cleaving RNA comprising a sequence of RBL-A gene, in
 CC the presence of a divalent cation, especially Mg²⁺. The enzymatic and
 CC antisense nucleic acid molecules are useful for treating breast, lung,
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
 CC multidrug resistant cancer. The method involves use of other drug
 CC therapies such as monoclonal antibodies, RBL-A-specific inhibitors or
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic
 CC acid molecules are also useful for treating inflammatory disease such as
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft
 CC rejection, gene therapy applications, ischemia/reperfusion injury
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or
 CC infection. This sequence represents the substrate of a novel enzymatic
 CC nucleic acid molecule
 CC
 SO Sequence 17 BP; 2 A; 9 C; 4 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 76.5%; Pred. No. 5.1e+02;
 Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 Oy 1174 CCUGAGAGAGACUGG 1190
 Db 17 CCTGAGGAGGCGCTGG 1
 RESULT 771
 ACA06556/c
 ID ACA06556 standard; RNA; 17 BP.
 XX
 AC ACA06556;
 XX
 XX 03-JUN-2003 (first entry)
 DT
 XX NFKB sub-unit modulating inozyme substrate #375.
 DE
 XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;
 KM G-cleaver; amberyze; cancer; RBL-A activity; breast cancer; human;
 KM lung cancer; prostate cancer; colorectal cancer; brain cancer;
 KM oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
 KM cervical cancer; head and neck cancer; ovarian cancer; melanoma;
 KM lymphoma; glioma; multidrug resistant cancer; RBL-A-specific inhibitor;
 KM chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;
 KM cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;
 KM gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;
 KM rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischemia;
 KM gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;
 KM transplant/graft rejection; reperfusion injury; glomerulonephritis;
 KM allergic airway inflammation; inflammatory bowel disease; infection; ss.
 XX
 OS Homo sapiens.
 XX
 PN US2002177568-A1.
 XX
 XX 28-NOV-2002.
 PD
 XX 23-MAY-2001; 2001US-00864785.
 PF
 XX 07-DEC-1992; 92US-00987132.
 PR 18-MAY-1994; 94US-00245466.
 PR 15-AUG-1994; 94US-00291932.
 PR 23-DEC-1996; 96US-00777916.
 XX
 PA (STIN/) STINCHOMB D T.
 PA (MCSW/) MCSWIGGEN J.
 PA (DRAP/) DRAPER K G.
 XX
 PI Stinchcomb DT, Mcswiggen J, Draper KG;
 DR WPI; 2003-340953/32.
 XX
 PT Novel enzymatic nucleic acid molecules which down regulates expression of
 PT a sequence encoding a subunit of nuclear factor kappa B useful for
 PT treating cancer, inflammatory disorders and autoimmune diseases.
 XX
 PS Claim 3; Page 32; 72pp; English.
 XX
 CC The invention describes an enzymatic nucleic acid molecule (I) which down
 CC regulates expression of a sequence encoding a subunit of nuclear factor
 CC kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberyze
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat
 CC cancer and is useful for down-regulating RBL-A activity in a cell, for
 CC treating a patient having a condition associated with the level of RBL-A.
 CC (I) is useful for cleaving RNA comprising a sequence of RBL-A gene, in
 CC the presence of a divalent cation, especially Mg²⁺. The enzymatic and
 CC antisense nucleic acid molecules are useful for treating breast, lung,
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or
 CC multidrug resistant cancer. The method involves use of other drug


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ID ACN05337 standard; RNA; 17 BP.
XX ACN05337;
XX ACN05337;
XX 22-APR-2004 (first entry)
XX MNV DNAzyme substrate SEQ ID NO 5340.
DE MNV DNAzyme substrate SEQ ID NO 5340.
XX MNV, West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
XX virucide; neuroprotective; antibacterial; replication; pancreatitis;
XX encephalitis; myocarditis; meningitis; infection; hepatitis;
XX liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNAzyme;
XX Amberzyme; Zinzyme; ss.
XX West Nile Virus.
XX WO20026637-A2.
XX 06-SEP-2002.
XX 19-OCT-2001; 2001WO-US048350.
XX 20-OCT-2000; 2000US-0242411P.
XX (RIBO-) RIBOZYME PHARM INC.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGEN J A.
XX Blact L, Mcswigen JA;
XX MPI; 2002-706994/76.
XX New nucleic acid molecule that modulates replication of West Nile Virus
XX (MNV), useful for treating a condition related to MNV infection e.g.
XX pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX Claim 23; SEQ ID NO 5340; 495pp; English.
XX The invention relates to nucleic acid molecules that modulate replication
XX of the West Nile Virus (MNV). The nucleic acid molecules are useful for
XX treating a condition related to MNV infection e.g. pancreatitis,
XX encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
XX liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
XX molecule is selected from the group of ribozymes consisting of
XX Hammerhead, Inozyme, G-cleaver, DNAzyme, Amberzyme and Zinzyme. The
XX nucleic acid molecules further comprise at least five ribose residues, at
XX least ten 2'-O-methyl modifications, phosphorothioate linkages on at
XX least three of the 5' terminal nucleotides and a 3' end modification of a
XX 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
XX are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
XX in the specification. The present sequence is that of a nucleic acid
XX molecule of the invention
XX Sequence 17 BP; 6 A; 5 C; 4 G; 0 T; 2 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 58.8%; Pred. No. 5.1e+02;
XX Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
QY 198 GCAAGUGGUCUACUGC 214
DB 17 GCCAGTGTCTCATG 1

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XX MNV, West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
XX virucide; neuroprotective; antibacterial; replication; pancreatitis;
XX encephalitis; myocarditis; meningitis; infection; hepatitis;
XX liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNAzyme;
XX Amberzyme; Zinzyme; ss.
XX West Nile Virus.
XX WO20026637-A2.
XX 06-SEP-2002.
XX 19-OCT-2001; 2001WO-US048350.
XX 20-OCT-2000; 2000US-0242411P.
XX (RIBO-) RIBOZYME PHARM INC.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGEN J A.
XX Blact L, Mcswigen JA;
XX MPI; 2002-706994/76.
XX New nucleic acid molecule that modulates replication of West Nile Virus
XX (MNV), useful for treating a condition related to MNV infection e.g.
XX pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX Claim 23; SEQ ID NO 15107; 495pp; English.
XX The invention relates to nucleic acid molecules that modulate replication
XX of the West Nile Virus (MNV). The nucleic acid molecules are useful for
XX treating a condition related to MNV infection e.g. pancreatitis,
XX encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
XX liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
XX molecule is selected from the group of ribozymes consisting of
XX Hammerhead, Inozyme, G-cleaver, DNAzyme, Amberzyme and Zinzyme. The
XX nucleic acid molecules further comprise at least five ribose residues, at
XX least ten 2'-O-methyl modifications, phosphorothioate linkages on at
XX least three of the 5' terminal nucleotides and a 3' end modification of a
XX 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
XX are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
XX in the specification. The present sequence is that of a nucleic acid
XX molecule of the invention
XX Sequence 17 BP; 5 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 88.2%; Pred. No. 5.1e+02;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1370 CCUUCAGGAGCCACU 1386
DB 1 CGUUCAGGAGCCACU 17

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RESULT 767
ID ACN15104
XX ACN15104 standard; RNA; 17 BP.
XX ACN15104;
XX 22-APR-2004 (first entry)
XX MNV minus strand Amberzyme substrate SEQ ID NO 15107.

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RESULT 768
ID ABT35871/C
XX ABT35871;
XX 12-JUN-2003 (first entry)
XX Tumour suppression related human fukutin oligo SEQ ID NO 1508.
XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
XX antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
XX schizophrenia; protein chip; gene therapy; tumour suppression;
XX human fukutin; ds.
XX Homo sapiens.

```

XX Sequence 17 BP; 4 A; 6 C; 5 G; 0 T; 2 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 252 CGGCAACAUCCUGGUA 268
Db 1 CGGCAACAGCTCGGCA 17
RESULT 764
ID ACN12490 standard; RNA; 17 BP.
XX ACN12490;
XX 22-APR-2004 (first entry)
XX
XX MNV minus strand Zinzyme substrate SEQ ID NO 12493.
XX
XX MNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
XX virucide; neuroprotective; antibacterial; replication; pancreatitis;
XX encephalitis; myocarditis; meningitis; infection; hepatitis;
XX liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNAzyme;
XX Amberzyme; Zinzyme; ss.
XX
XX West Nile Virus.
XX
XX WO200268637-A2.
XX
XX 06-SEP-2002.
XX
XX 19-OCT-2001; 2001WO-US048350.
XX
XX 20-OCT-2000; 2000US-0242411P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGEN J A.
XX
XX Blatt L, Mcswigen JA;
XX
XX WPI; 2002-706994/76.
XX
XX New nucleic acid molecule that modulates replication of West Nile Virus
XX (MNV), useful for treating a condition related to MNV infection e.g.
XX pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX
XX Claim 23; SEQ ID NO 12493; 495bp; English.
XX
XX The invention relates to nucleic acid molecules that modulate replication
XX of the West Nile Virus (MNV). The nucleic acid molecules are useful for
XX treating a condition related to MNV infection e.g. pancreatitis,
XX encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
XX liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
XX molecule is selected from the group of ribozymes consisting of
XX Hammerhead, Inozyme, G-cleaver, DNAzyme, Amberzyme and Zinzyme. The
XX nucleic acid molecules further comprise at least five ribose residues, at
XX least ten 2'-O-methyl modifications, phosphorothioate linkages on at
XX least three of the 5' terminal nucleotides and a 3' end modification of a
XX 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
XX are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
XX in the specification. The present sequence is that of a nucleic acid
XX molecule of the invention
XX
XX Sequence 17 BP; 5 A; 5 C; 6 G; 0 T; 1 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 960 GAAACCGAGCCGAGC 976
Db 1 GAAAGCAGCUCGAGC 17
RESULT 765
ID ACN01779/c
XX ACN01779 standard; RNA; 17 BP.
XX ACN01779;
XX
XX 22-APR-2004 (first entry)
XX
XX MNV Inozyme substrate SEQ ID NO 1769.
XX
XX MNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
XX virucide; neuroprotective; antibacterial; replication; pancreatitis;
XX encephalitis; myocarditis; meningitis; infection; hepatitis;
XX liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNAzyme;
XX Amberzyme; Zinzyme; ss.
XX
XX West Nile Virus.
XX
XX WO200268637-A2.
XX
XX 06-SEP-2002.
XX
XX 19-OCT-2001; 2001WO-US048350.
XX
XX 20-OCT-2000; 2000US-0242411P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX (BLAT/) BLATT L.
XX (MCSW/) MCSWIGEN J A.
XX
XX Blatt L, Mcswigen JA;
XX
XX WPI; 2002-706994/76.
XX
XX New nucleic acid molecule that modulates replication of West Nile Virus
XX (MNV), useful for treating a condition related to MNV infection e.g.
XX pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX
XX Claim 23; SEQ ID NO 1769; 495bp; English.
XX
XX The invention relates to nucleic acid molecules that modulate replication
XX of the West Nile Virus (MNV). The nucleic acid molecules are useful for
XX treating a condition related to MNV infection e.g. pancreatitis,
XX encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
XX liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
XX molecule is selected from the group of ribozymes consisting of
XX Hammerhead, Inozyme, G-cleaver, DNAzyme, Amberzyme and Zinzyme. The
XX nucleic acid molecules further comprise at least five ribose residues, at
XX least ten 2'-O-methyl modifications, phosphorothioate linkages on at
XX least three of the 5' terminal nucleotides and a 3' end modification of a
XX 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
XX are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
XX in the specification. The present sequence is that of a nucleic acid
XX molecule of the invention
XX
XX Sequence 17 BP; 4 A; 3 C; 5 G; 0 T; 5 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 5.1e+02;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
QY 1369 UCCUCCAGGAGCCAC 1385
Db 1 TCGTCAATGAGCCAC 1
RESULT 766
ACN05337/c

CC The invention relates to nucleic acid molecules that modulate replication
 CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for
 CC treating a condition related to WNV infection e.g. pancreatitis,
 CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
 CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
 CC molecule is selected from the group of ribozymes consisting of
 CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The
 CC nucleic acid molecules further comprise at least five ribose residues, at
 CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at
 CC least three of the 5' terminal nucleotides and a 3' end modification of a
 CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
 CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
 CC in the specification. The present sequence is that of a nucleic acid
 CC molecule of the invention

XX Sequence 17 BP; 7 A; 0 C; 7 G; 0 T; 3 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 47.1%; Pred. No. 5.1e+02;
 Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 32 CUUGUUUCCAAACAU 48
 DB 17 CTTCTTCCAAACCTC 1

RESULT 762

ACN00273/C
 ID ACN00273 standard; RNA; 17 BP.

ACN00273;

22-APR-2004 (first entry)

WNV Hammerhead Ribozyme substrate SEQ ID NO 263.

WNV, West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
 virucide; neuroprotective; antibacterial; replication; pancreatitis;
 encephalitis; myocarditis; meningitis; infection; hepatitis;
 liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;
 Amberzyme; Zinzyme; ss.

West Nile Virus.

WO20026637-A2.

06-SEP-2002.

19-OCT-2001; 2001WO-US048350.

20-OCT-2000; 2000US-024241P.

(RIBO-) RIBOZYME PHARM INC.

(BLAT/) BLATT L.

(MCSW/) MCSWIGGEN J A.

Blatt L, Mcswigen JA;

WPI; 2002-706994/76.

New nucleic acid molecule that modulates replication of West Nile Virus
 (WNV), useful for treating a condition related to WNV infection e.g.
 pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.

Claim 23; SEQ ID NO 263; 495bp; English.

The invention relates to nucleic acid molecules that modulate replication
 of the West Nile Virus (WNV). The nucleic acid molecules are useful for
 treating a condition related to WNV infection e.g. pancreatitis,
 encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
 liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
 molecule is selected from the group of ribozymes consisting of
 Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The

CC nucleic acid molecules further comprise at least five ribose residues, at
 CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at
 CC least three of the 5' terminal nucleotides and a 3' end modification of a
 CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
 CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
 CC in the specification. The present sequence is that of a nucleic acid
 CC molecule of the invention

XX Sequence 17 BP; 4 A; 3 C; 5 G; 0 T; 5 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 70.6%; Pred. No. 5.1e+02;
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1370 CCUUCAGGAGGCACU 1386
 DB 17 CGTTCATGAGCCACT 1

RESULT 763
 ACN04254
 ID ACN04254 standard; RNA; 17 BP.

ACN04254;

22-APR-2004 (first entry)

WNV Zinzyme substrate SEQ ID NO 4257.

WNV, West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
 virucide; neuroprotective; antibacterial; replication; pancreatitis;
 encephalitis; myocarditis; meningitis; infection; hepatitis;
 liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;
 Amberzyme; Zinzyme; ss.

West Nile Virus.

WO20026637-A2.

06-SEP-2002.

19-OCT-2001; 2001WO-US048350.

20-OCT-2000; 2000US-024241P.

(RIBO-) RIBOZYME PHARM INC.

(BLAT/) BLATT L.

(MCSW/) MCSWIGGEN J A.

Blatt L, Mcswigen JA;

WPI; 2002-706994/76.

New nucleic acid molecule that modulates replication of West Nile Virus
 (WNV), useful for treating a condition related to WNV infection e.g.
 pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.

Claim 23; SEQ ID NO 4257; 495bp; English.

The invention relates to nucleic acid molecules that modulate replication
 of the West Nile Virus (WNV). The nucleic acid molecules are useful for
 treating a condition related to WNV infection e.g. pancreatitis,
 encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
 liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
 molecule is selected from the group of ribozymes consisting of
 Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The
 nucleic acid molecules further comprise at least five ribose residues, at
 least ten 2'-O-methyl modifications, phosphorothioate linkages on at
 least three of the 5' terminal nucleotides and a 3' end modification of a
 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
 are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
 in the specification. The present sequence is that of a nucleic acid
 molecule of the invention

PA	(RIBO-) RIBOZYME PHARM INC.
PA	(BLATT/) BLATT L.
PA	(MCSW/) MCSWIGGEN J A.
XX	
PI	Blatt L, Mcswigen JA;
DR	WPI; 2002-706994/76.
PS	
PT	New nucleic acid molecule that modulates replication of West Nile Virus
PR	(MNV), useful for treating a condition related to MNV infection e.g. pancreaticitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX	
CC	Claim 23; SEQ ID NO 8063; 495bp; English.
XX	
CC	The invention relates to nucleic acid molecules that modulate replication
CC	of the West Nile Virus (MNV). The nucleic acid molecules are useful for
CC	treating a condition related to MNV infection e.g. pancreatitis,
CC	encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
CC	liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
CC	molecule is selected from the group of ribozymes consisting of
CC	Hammerhead, Inozyme, G-leaver, DNAzyme, Ambenzyme and Zinzyne. The
CC	nucleic acid molecules further comprise at least five ribose residues, at
CC	least ten 2'-o-methyl modifications, phosphorothioate linkages on at
CC	least three of the 5' terminal nucleotides and a 3' end modification of a
CC	3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
CC	are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
CC	in the specification. The present sequence is that of a nucleic acid
CC	molecule of the invention
XX	
SQ	Sequence 17 BP; 3 A; 7 C; 0 G; 0 T; 7 U; 0 Other;
	Query Match 0.8%; Score 13.8; DB 1; Length 17;
	Best Local Similarity 88.2%; Pred.No. 5.1e+02;
	Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY	
	32 CUUGGUTUCCAAACUVC 48
DB	1 CUUCUUUCCAAACCUC 17
RESULT 760	
ACN14064	
ID	ACN14064 standard; RNA; 17 BP.
AC	
ACN14064;	
DT	22-APR-2004 (first entry)
DE	
MNV minus strand DNAzyme substrate SEQ ID NO 14067.	
KW	MNV, West Nile Virus; antiinflammatory; cytosatic; hepatotropic;
KW	vincidine; neuroprotective; antibacterial; replication; pancreatitis;
KW	encephalitis; myocardiatis; meningitis; infection; hepatitis;
KW	liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNAzyme;
KW	Ambenzyme; Zinzyne; ss.
XX	
OS	West Nile Virus.
XX	
WO200268637-A2.	
PD	06-SEP-2002.
PF	19-OCT-2001; 2001WO-US048350.
XX	
PR	20-OCT-2000; 2000US-0242411P.
XX	
PA	(RIBO-) RIBOZYME PHARM INC.
PA	(BLATT/) BLATT L.
PA	(MCSW/) MCSWIGGEN J A.
XX	
PI	Blatt L, Mcswigen JA;
DR	WPI; 2002-706994/76.

XX	New nucleic acid molecule that modulates replication of West Nile Virus
PT	(MNV), useful for treating a condition related to MNV infection e.g.
PT	pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX	
PS	Claim 23; SEQ ID NO 14067; 495bp; English.
XX	
CC	The invention relates to nucleic acid molecules that modulate replication
CC	of the West Nile Virus (MNV). The nucleic acid molecules are useful for
CC	treating a condition related to MNV infection e.g. pancreatitis,
CC	encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
CC	liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
CC	molecule is selected from the group of ribozymes consisting of
CC	Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The
CC	nucleic acid molecules further comprise at least five ribose residues, at
CC	least ten 2'-O-methyl modifications, phosphorothioate linkages on at
CC	least three of the 5' terminal nucleotides and a 3' end modification of a
CC	3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
CC	are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
CC	in the specification. The present sequence is that of a nucleic acid
CC	molecule of the invention
XX	
SEQ	Sequence 17 BP; 5 A; 4 C; 4 G; 0 T; 4 U; 0 Other;
Query Match	0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity	88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
Qy	1368 GUCGUCACAGAGGCCA 1384
Db	1 GUCGUCACAGAGGCCA 17
RESULT 761	
ACN06766/C	
ID	ACN06766 standard; RNA; 17 BP.
XX	
AC	ACN06766;
XX	
DT	22-APR-2004 (first entry)
XX	
DE	MNV Amberzyme substrate SEQ ID NO 6769.
XX	
MM	MNV, West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
XX	vinicidic; neuroprotective; antibacterial; replication; pancreatitis;
KW	encephalitis; myocardiitis; meningitis; infection; hepatitis;
KM	liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;
KM	Amberzyme; Zinzyme; ss.
OS	West Nile Virus.
XX	
PN	MO200268637-A2.
XX	
PD	06-SEP-2002.
XX	
PF	19-OCT-2001; 2001WO-US048350.
XX	
PR	20-OCT-2000; 2000US-0242411P.
XX	
PA	(RIBO-) RIBOZYME PHARM INC.
PA	(BLAT/) BLATT L.
PA	(MCSW/) MCSWIGEN J A.
XX	
PI	Blatt L, Mcswigen JA;
XX	
DR	WPI; 2002-706994/76.
XX	
PT	New nucleic acid molecule that modulates replication of West Nile Virus
PT	(MNV), useful for treating a condition related to MNV infection e.g.
PT	pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX	
PS	Claim 23; SEQ ID NO 6769; 495bp; English.

PD 14-FEB-2002.
 XX
 PF 09-AUG-2001; 2001WO-US024970.
 XX
 PR 09-AUG-2000; 2000US-0224383P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX (SYNT) SYNTX USA LLC.
 PA (THOM/) THOMPSON J.
 XX
 PI Thompson J, Mcswigen J, McKenzie T, Ayers D, Szymkowski DE;
 PI Grube A;
 XX
 DR WPI; 2002-217145/27.
 XX
 PT Enzymatic polynucleotide that down regulates expression of chloride
 PT channel calcium activated gene, useful for treating Chronic obstructive
 PT pulmonary disease (COPD), chronic bronchitis and asthma.
 XX
 PS Claim 4; Page 88; 152pp; English.
 XX
 CC The invention relates to enzymatic nucleic acid molecules that down
 CC regulate expression of chloride channel calcium activated 1 (ClCA1) genes
 CC by cleaving RNA derived from the genes. The nucleic acid sequences are
 CC useful as pharmaceutical agents for treating conditions such as chronic
 CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic
 CC fibrosis, obstructive bowel syndrome and any other diseases or conditions
 CC that are related to or will respond to the levels of ClCA1 in a cell or
 CC tissue. The sequences are useful for reducing ClCA1 activity in a cell,
 CC hence, are useful for treatment of a patient having a condition
 CC associated with the level of ClCA1, where the invention further comprises
 CC the use of one or more therapies under conditions suitable for the
 CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,
 CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The
 CC nucleic acids of the invention are also used as diagnostic tools to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ClCA1 RNA in a cell. This sequence represents an
 CC enzymatic nucleic acid molecule of the invention
 XX
 SQ Sequence 17 BP; 5 A; 3 C; 2 G; 0 T; 7 U; 0 Other;
 XX
 QY Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 5.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 DB 358 AUUUCAGUAUCUGUU 374
 1 AGUUCAGUAUCUCUU 17
 XX
 RESULT 758
 ID ABE57457 standard; RNA; 17 BP.
 XX
 AC ABE57457;
 XX
 DT 02-JUL-2002 (first entry)
 XX
 DE Human ClCA1 gene enzymatic nucleic acid #1828.
 XX
 KW Human; chloride channel calcium activated 1; ClCA1; ss; antiasthmatic;
 KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;
 KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;
 KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;
 KW acetylcysteine.
 XX
 OS Homo sapiens.
 XX
 PN WO200211674-A2.
 XX
 PD 14-FEB-2002.
 XX
 PF 09-AUG-2001; 2001WO-US024970.
 XX

XX
 PR 09-AUG-2000; 2000US-0224383P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 XX (SYNT) SYNTX USA LLC.
 PA (THOM/) THOMPSON J.
 XX
 PI Thompson J, Mcswigen J, McKenzie T, Ayers D, Szymkowski DE;
 PI Grube A;
 XX
 DR WPI; 2002-217145/27.
 XX
 PT Enzymatic polynucleotide that down regulates expression of chloride
 PT channel calcium activated gene, useful for treating Chronic obstructive
 PT pulmonary disease (COPD), chronic bronchitis and asthma.
 XX
 PS Claim 4; Page 113; 152pp; English.
 XX
 CC The invention relates to enzymatic nucleic acid molecules that down
 CC regulate expression of chloride channel calcium activated 1 (ClCA1) genes
 CC by cleaving RNA derived from the genes. The nucleic acid sequences are
 CC useful as pharmaceutical agents for treating conditions such as chronic
 CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic
 CC fibrosis, obstructive bowel syndrome and any other diseases or conditions
 CC that are related to or will respond to the levels of ClCA1 in a cell or
 CC tissue. The sequences are useful for reducing ClCA1 activity in a cell,
 CC hence, are useful for treatment of a patient having a condition
 CC associated with the level of ClCA1, where the invention further comprises
 CC the use of one or more therapies under conditions suitable for the
 CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,
 CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The
 CC nucleic acids of the invention are also used as diagnostic tools to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ClCA1 RNA in a cell. This sequence represents an
 CC enzymatic nucleic acid molecule of the invention
 XX
 SQ Sequence 17 BP; 5 A; 4 C; 1 G; 0 T; 7 U; 0 Other;
 XX
 QY Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 5.1e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 DB 360 UUCAGUAUCUGUU 376
 1 UUCAGUAUCUCUU 17
 XX
 RESULT 759
 ID ACN08066 standard; RNA; 17 BP.
 XX
 AC ACN08066;
 XX
 DT 22-APR-2004 (first entry)
 XX
 DE WNV minus strand Hammerhead Ribozyme substrate SEQ ID NO 8069.
 XX
 KW WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
 KW virucide; neuroprotective; antibacterial; replication; pancreatitis;
 KW encephalitis; myocarditis; meningitis; infection; hepatitis;
 KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; Dnazyme;
 KW Amberzyme; Zinzyme; ss.
 XX
 OS West Nile Virus.
 XX
 PN WO200268637-A2.
 XX
 PD 06-SEP-2002.
 XX
 PF 19-OCT-2001; 2001WO-US048350.
 XX
 PR 20-OCT-2000; 2000US-0242411P.
 XX

KM contraceptive; gene therapy; vaccine; pregnancy; antenatal; diagnosis;
KM dysgenetic pregnancy; primer; ss.
XX
OS Homo sapiens.
PN US2002102252-A1.
XX
PD 01-AUG-2002.
XX
PF 06-APR-2001; 2001US-00827998.
XX
PR 26-MAY-2000; 2000US-0207456P.
XX
PA (GUYU/) GU Y.
XX (SHAN/) SHANNON M E.
XX
PI Gu Y, Shannon ME;
XX
DR WPI; 2002-697817/75.
XX
PT New isolated nucleic acid encoding an isoform of human pregnancy
associated plasma protein E, for preventing or aborting pregnancy.
XX
PS Example 2; Page 158; 353pp; English.
XX
CC This invention describes a novel isolated nucleic acid that encodes one
of three new isoforms of human pregnancy associated plasma protein E,
hPAP-E. The products of the invention have abortive and contraceptive
activity and can be used for gene therapy or in a vaccine. The nucleic
acid, polypeptide encoded by it, or antibody to the polypeptide can be
used in pharmaceutical compositions or vaccines for preventing or
aborting pregnancy. PAP-E is used in the antenatal diagnosis of
CC dysgenetic pregnancies. The nucleic acids are used as probes to assess
the level of PAP-E isoform mRNA in chorionic villus samples, and the
antibodies can be used to assess the expression levels of PAP-E isoform
proteins in chorionic villus samples, to diagnose dysgenetic pregnancies
CC antenatally. This sequence represents an oligomer used in scanning the
human PAP-E genes described in the disclosure of the invention
CC
SQ Sequence 17 BP; 4 A; 6 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 5.1e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
QY 1674 GCUGCTGUGCCAGUG 1690
DB 17 GCCGCTCTGCCAGTGTG 1
RESULT 756
ABV90085
ID ABV90085 standard; DNA; 17 BP.
XX
AC ABV90085;
XX
DT 23-DEC-2002 (first entry)
XX
DE Human POSHL1 scanning oligonucleotide SEQ ID NO 798.
XX
KM Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KM Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KM gene therapy; transgenic; ss.
XX
OS Homo sapiens.
XX
PN EP1239051-A2.
XX
PD 11-SEP-2002.
XX
PF 28-JAN-2002; 2002EP-00001165.
XX
PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 23-MAY-2001; 2001US-00864761.
PR 10-OCT-2001; 2001US-0328205P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Shannon M;
XX
DR WPI; 2002-684061/74.
XX
XX
PT Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL.
XX
PS Example 2; SEQ ID NO 798; 60pp + Sequence Listing; English.
XX
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (SI, ABB83999), a sequence having 65% sequence identity to (S1),
CC (S1) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC downstream components of the signal transduction pathway. (I) is useful
CC for identifying a specific binding partner. (I) and nucleic acids (II)
CC encoding (I) are useful for diagnosing, monitoring disease and treating
CC caused by altered expression of human POSHL1 including diagnosing and
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention. Note: The present sequence did not form part of the
CC printed specification, but is based on sequence information supplied to
CC Derwent by the European Patent Office
XX
SQ Sequence 17 BP; 6 A; 4 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.1e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 281 AGGUCACACAGCAGCUG 297
DB 1 AAGTCATCAGCAGCTG 17
RESULT 757
ABK56975
ID ABK56975 standard; RNA; 17 BP.
XX
AC ABK56975;
XX
DT 02-JUL-2002 (first entry)
XX
DE Human CLCA1 gene enzymatic nucleic acid #1346.
XX
KM Human; chloride channel calcium activated 1; CLCA1; ss; antiaesthetic;
KM antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;
KM chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;
KM oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;
KM acetylcysteine.
XX
XX Homo sapiens.
XX
XX WO200211674-A2.
XX

XX	PA	(AEOM-) AEOMICA INC.
XX	E1	Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX	DR	WPI; 2002-179446/23.
XX	PT	New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins,
PT	or as specific biomolecule capture probes for surface-enhanced laser	
FT	desorption ionization, comprises human myosin-like protein hGDMLP-1.	
PS	Disclosure; SEQ ID NO 2301; 214pp; English.	
XX	CC	The present invention describes a human genome-derived myosin-like
CC	protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-	
CC	1 can be used in gene therapy and vaccine production. The hGDMLP-1	
CC	nucleic acids can be used as probes to detect, characterise and quantify	
CC	hGDMLP-1 nucleic acids in samples, as amplification substrates, to	
CC	provide initial substrates for the recombinant engineering of hGDMLP-1	
CC	protein variants having desired phenotypic improvements, and for	
CC	expressing the proteins. The hGDMLP-1 proteins or polypeptides may be	
CC	used as immunogens to raise antibodies that specifically recognise hGDMLP-	
CC	-1 proteins, as standards in assays used to determine the concentration	
CC	and/or amount specifically of hGDMLP proteins, as specific biomolecule	
CC	capture probes for surface-enhanced laser desorption/ionisation, as	
CC	therapeutic supplement in patients having specific deficiency in hGDMLP-1	
CC	production, and in vaccines or for replacement therapy. The	
CC	polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a	
CC	disorder associated with the expression of hGDMLP-1, in particular heart	
CC	and skeletal muscle disorders. hGDMLP-1 is localised on chromosome 22.	
CC	The present sequence represents an oligomer used in the screening of the	
CC	hGDMLP-1 sequence in the exemplification of the present invention. N.B.	
CC	The sequence data for this patent did not form part of the printed	
CC	specification, but was obtained in electronic format directly from WIPO	
CC	at ftp.wipo.int/pub/published_pct_sequence	
XX	SEQ	Sequence 17 BP; 4 A; 8 C; 4 G; 1 T; 0 U; 0 Other;
XX	Query Match	0.8%; Score 13.8; DB 1; Length 17;
XX	.Best Local Similarity	82.4%; Pred. No. 5.1e+02;
XX	Matches 14; Conservative	1; Mismatches 2; Indels 0; Gaps 0
OY	990 CCACGACGACAGUGACA 1006 : DB 1 CCACGCCGCAGTGGCA 17	
ID	ABO64199 standard; DNA; 17 BP.	
XX	ABO64199;	
XX	20-AUG-2002 (first entry)	
DE	Human Ktoma portion (ABO63232) probe # 912.	
XX	Human, Ktoma1a; Ktoma1; kidney tumour overexpressed membrane; cytostatic; gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;	

KW	kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
XX	
OS	Homo sapiens.
XX	
EN	WO200224750-A2.
PD	
XX	
PF	28-MAR-2002.
XX	
PR	21-SEP-2001; 2001WO-US029656.
XX	
PR	21-SEP-2000; 2000US-0234687P.
XX	
PR	27-SEP-2000; 2000US-0236359P.
XX	
PR	04-OCT-2000; 2000GB-00024263.
XX	
PR	30-JAN-2001; 2001WO-US000661.
XX	
PR	30-JAN-2001; 2001WO-US000662.
XX	
PR	30-JAN-2001; 2001WO-US000663.
XX	
PR	30-JAN-2001; 2001WO-US000664.
XX	
PR	30-JAN-2001; 2001WO-US000665.
XX	
PR	30-JAN-2001; 2001WO-US000666.
XX	
PR	30-JAN-2001; 2001WO-US000667.
XX	
PR	30-JAN-2001; 2001WO-US000668.
XX	
PR	30-JAN-2001; 2001WO-US000669.
XX	
PR	23-MAY-2001; 2001US-00864761.
XX	
PR	28-AUG-2001; 2001US-0315676P.
XX	
PA	(ABOM-) AEOMICA INC.
PI	
XX	Zhang J;
DR	WPI; 2002-479509/51.
XX	
PT	New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic acids encoding the protein, useful for treating subjects having defects in KTOM1 which can manifest as cancer of the kidney, or as a disorder of e.g., liver or bone.
XX	
Pt	
ES	Example 2, Page 277; 418pp; English.
XX	
CC	The invention relates to a novel isolated nucleic acid encoding human
XX	
CC	KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the
XX	
CC	invention has cytostratic activity. The nucleotide may have a use in gene
XX	
CC	therapy. The KTOM1 nucleic acids may be used to diagnose, treat or
XX	
CC	monitor a disease caused by altered expression of human KTOM1.
XX	
CC	Compositions comprising the nucleic acids, proteins or antibodies may be
XX	
CC	used to treat subjects having defects in KTOM1 which can manifest as
XX	
CC	cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
XX	
CC	heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
XX	
CC	function. The sequence represents a probe used in the invention to scan
XX	
CC	the nt 1-1001 portion of human KTOM1a (ABQ63232)
XX	
SQ	Sequence 17 BP; 4 A; 4 C; 6 G; 3 T; 0 U; 0 Other;
XX	
Query Match	0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity	64.7%; Pred.No. 5.1e+02;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;	
OY	1280 TTGCCATCAGGACGAG 1296
DB	17 TTCCCCTCGAGTAGAG 1
RESULT 755	
ID	ABST75110/c
XX	ABST75110 standard; DNA; 17 BP.
XX	
AC	ABST75110;
XX	
Df	24-DEC-2002 (first entry)
XX	
DE	Human PAP-Ba associated 17-mer SEQ ID 636.
XX	
PAP-B	human; pregnancy associated plasma protein E; abortive;

CC molecules (e.g. ribozymes) to modulate gene expression. The invention
CC also methods for their use to down regulate or inhibit the expression of
CC gene encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
CC nucleic acid molecules used to inhibit the expression of the said genes
CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme,
CC zinzyme, and/or DNAzyme motifs. The methods of the invention are useful
CC for treating cancer, in particular breast cancer, Alzheimer's disease,
CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
CC diseases, hepatitis B infections, and hepatitis and hepatocellular
CC carcinoma. The enzymatic nucleic acid molecules can also be used as
CC diagnostic tools to examine genetic drift and mutations within diseased
CC cells and to detect the presence of specific RNA in a cell. The present
CC sequence represents a substrate/target sequence for a DNAzyme used in the
CC examples of the present invention. Note: Some SEQ ID Nos are repeated
CC more than once in the specification, but these have different sequences
CC associated with them.

CC
XX
SQ Sequence 17 BP; 7 A; 3 C; 6 G; 0 T; 1 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 58.8%; Pred. No. 5.1e+02;

Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 594 CCUUGGCGUCUCCGCA 610

DB 17 CCTTGGGCTTCCCA 1

RESULT 752

ADN09199

ID ADN09199 standard; RNA; 17 BP.

AC ADN09199;

XX 10-FEB-2005 (first entry)

XX Human PTP-1B DNAzyme substrate sequence #185.

KM Enzymatic nucleic acid molecule; gene expression; down regulation;
KM protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
KM MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
KM beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
KM c-erb2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
KM hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver;
KM amberzyme; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
KM diabetes; obesity; cardiac disease; heart disease; age-related disease;
KM hepatitis B infection; hepatocellular carcinoma; genetic drift; human;
KM ss.

OS Homo sapiens.

XX WO200116312-A2.

XX 08-MAR-2001.

XX 30-AUG-2000; 2000WO-US02398.

XX 31-AUG-1999; 99US-0151713P.

XX 27-SEP-1999; 99US-0040664J.

XX 27-SEP-1999; 99US-0156236P.

XX 08-NOV-1999; 99US-0156467P.

XX 06-DEC-1999; 99US-0169100P.

XX 29-DEC-1999; 99US-0047443Z.

XX 30-DEC-1999; 99US-00476387.

XX 04-FEB-2000; 2000US-00498824.

XX 20-MAR-2000; 2000US-00531025.

XX 14-APR-2000; 2000US-0197769P.

PR 23-MAY-2000; 2000US-00578223.

PR 09-AUG-2000; 2000US-00636385.

XX (RIBO-) RIBOZYME PHARM INC.

XX Meswigen J, Usman N, Blatt L, Beigelman L, Burgin A;

XX Karpelsky A, Matulic-Adamic J, Swedler D, Draper K, Chowrira B;

XX Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;

XX WPI; 2001-244406/25.

XX Example 2; Page 220; 717pp; English.

CC The present invention relates to the use of enzymatic nucleic acid
CC molecules (e.g. ribozymes) to modulate gene expression. The invention
CC also methods for their use to down regulate or inhibit the expression of
CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
CC nucleic acid molecules used to inhibit the expression of the said genes
CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme,
CC zinzyme, and/or DNAzyme motifs. The methods of the invention are useful
CC for treating cancer, in particular breast cancer, Alzheimer's disease,
CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
CC diseases, hepatitis B infections, and hepatitis and hepatocellular
CC carcinoma. The enzymatic nucleic acid molecules can also be used as
CC diagnostic tools to examine genetic drift and mutations within diseased
CC cells and to detect the presence of specific RNA in a cell. The present
CC sequence represents a substrate/target sequence for a DNAzyme used in the
CC examples of the present invention. Note: Some SEQ ID Nos are repeated
CC more than once in the specification, but these have different sequences
CC associated with them.

XX
SQ Sequence 17 BP; 4 A; 7 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 5.1e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1209 GAAAGCGACACAGCUCG 1225

DB 1 GACAGCGACACAGCUCG 17

RESULT 753

ABN02309

ID ABN02309 standard; DNA; 17 BP.

AC ABN02309;

XX 29-MAY-2002 (first entry)

XX Human GDMUP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:2301.

XX Human; genome-derived myosin-like protein 1; GDMUP-1; hGDMUP-1; heart;

XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;

XX skeletal muscle disorder; amplicon; screening; ss.

XX Homo sapiens.

XX WO2001192524-A2.

XX 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

AC ADVE4685;
 XX 10-FEB-2005 (first entry)
 DT
 XX
 DE Human Her2 class II (zincyme) ribozyme substrate sequence #573.
 XX
 KM Enzymatic nucleic acid molecule; gene expression; down regulation;
 KM protein-tyrosine-phosphatase-1b; PTP-1B; methionine aminopeptidase;
 KM MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KM beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KM c-erb2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
 KM hepatitis B virus; HBV; hammethead; HH; hairpin; NCH; inozyme; G-cleaver;
 KM amberyzyme; zincyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KM diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KM hepatitis B infection; hepatocellular carcinoma; genetic drift; human;
 KM ss.
 XX Homo sapiens.
 OS
 XX WO200116312-A2.
 PN
 XX 08-MAR-2001.
 PD
 XX 30-AUG-2000; 2000WO-US023998.
 PF
 XX 31-AUG-1999; 99US-0151713P.
 PR 27-SEP-1999; 99US-00406643.
 PR 27-SEP-1999; 99US-0156236P.
 PR 27-SEP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR 14-APR-2000; 2000US-0197769P.
 PR 23-MAY-2000; 2000US-00578223.
 PR 09-AUG-2000; 2000US-00636385.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA
 XX Mcswigen J, Usman N, Blatt L, Belgelman L, Burgin A;
 PI Karpelsky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B;
 PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
 XX WPI; 2001-244406/25.
 DR
 XX Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 XX are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 PT
 XX
 XX Example 16; Page 635; 717pp; English.
 PS
 XX The present invention relates to the use of enzymatic nucleic acid
 CC molecules (e.g. ribozymes) to modulate gene expression. The invention
 CC also methods for their use to down regulate or inhibit the expression of
 CC genes encoding protein-tyrosine-phosphatase-1b (PTP-1B), methionine C
 CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
 CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
 CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
 CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
 CC nucleic acid molecules used to inhibit the expression of the said genes
 CC include hammethead (HH), hairpin, NCH (inozyme), G-cleaver, amberyzyme,
 CC zincyme, and/or DNAzyme motifs. The methods of the invention are useful
 CC for treating cancer, in particular breast cancer, Alzheimer's disease,
 CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
 CC diseases, hepatitis B infections, and hepatitis and hepatocellular
 CC carcinoma. The enzymatic nucleic acid molecules can also be used as
 CC diagnostic tools to examine genetic drift and mutations within diseased
 CC cells and to detect the presence of specific RNA in a cell. The present
 CC sequence represents a substrate/target sequence for a ribozyme used in
 CC the examples of the present invention. Note: Some SEQ ID Nos are repeated

CC more than once in the specification, but these have different sequences
 CC associated with them.
 CC
 XX
 XX Sequence 17 BP; 3 A; 3 C; 7 G; 0 T; 4 U; 0 Other;
 SQ
 Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 5.1e-02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 406 UUAGGGAACUUGCCUG 422
 DB 1 UUAGGGAACUUGCCUG 17
 RESULT 751
 ADN08955/c
 ID ADN08955 standard; RNA; 17 BP.
 XX
 XX ADN08955;
 AC
 XX
 XX 10-FEB-2005 (first entry)
 DT
 XX
 DE Human PTP-1B DNAzyme substrate sequence #65.
 XX
 KM Enzymatic nucleic acid molecule; gene expression; down regulation;
 KM protein-tyrosine-phosphatase-1b; PTP-1B; methionine aminopeptidase;
 KM MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KM beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KM c-erb2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
 KM hepatitis B virus; HBV; hammethead; HH; hairpin; NCH; inozyme; G-cleaver;
 KM amberyzyme; zincyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KM diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KM hepatitis B infection; hepatocellular carcinoma; genetic drift; human;
 KM ss.
 XX Homo sapiens.
 OS
 XX WO200116312-A2.
 PN
 XX 08-MAR-2001.
 PD
 XX 30-AUG-2000; 2000WO-US023998.
 PF
 XX 31-AUG-1999; 99US-0151713P.
 PR 27-SEP-1999; 99US-00406643.
 PR 27-SEP-1999; 99US-0156236P.
 PR 27-SEP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR 14-APR-2000; 2000US-0197769P.
 PR 23-MAY-2000; 2000US-00578223.
 PR 09-AUG-2000; 2000US-00636385.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA
 XX Mcswigen J, Usman N, Blatt L, Belgelman L, Burgin A;
 PI Karpelsky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B;
 PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
 XX WPI; 2001-244406/25.
 DR
 XX Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 XX are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 PT
 XX
 XX Example 2; Page 216; 717pp; English.
 PS
 XX The present invention relates to the use of enzymatic nucleic acid

CC sequence represents a substrate/target sequence for a ribozyme used in
 CC the examples of the present invention. Note: Some SEQ ID Nos are repeated
 CC more than once in the specification, but these have different sequences
 CC associated with them.
 XX
 SQ Sequence 17 BP; 2 A; 12 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 70.6%; Pred. No. 5.1e+02;
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 GY 1127 CCAGCCUACACUCCAC 1143
 DB 1 CCTCTCCTCCTCCAC 17
 RESULT 747
 ADV38943/C
 ID ADV38943 standard; DNA; 17 BP.
 AC ADV38943;
 XX
 XX 10-FEB-2005 (first entry)
 DT
 DE HBV hammerhead ribozyme substrate sequence #622.
 XX
 XX Enzymatic nucleic acid molecule; gene expression; down regulation;
 KW protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
 KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KW c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; inosyme; G-cleaver;
 KW hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inosyme; G-cleaver;
 KW amberyne; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KW hepatitis B infection; hepatocellular carcinoma; genetic drift; ds.
 XX
 OS Hepatitis B virus.
 XX
 XX WO200116312-A2.
 XX
 PD 08-MAR-2001.
 XX
 PF 30-AUG-2000; 2000WO-US023998.
 XX
 XX 31-AUG-1999; 99US-0151713P.
 PR 27-SEP-1999; 99US-00406643.
 PR 27-SEP-1999; 99US-0156236P.
 PR 27-SEP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR 14-APR-2000; 2000US-0197769P.
 PR 23-MAY-2000; 2000US-00578223.
 PR 09-AUG-2000; 2000US-00636385.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA
 XX
 PI McSwiggan J, Usman N, Blatt L, Beigelman L, Burgin A,
 PI Karpeisky A, Matulic-Adamic J, Svedler D, Draper K, Chowrira B,
 PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
 XX
 DR WPI; 2001-244406/25.
 XX
 PT Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 XX
 PS Example 6; Page 513; 717P; English.
 XX

CC The present invention relates to the use of enzymatic nucleic acid
 CC molecules (e.g. ribozymes) to modulate gene expression. The invention of
 CC also methods for their use to down regulate or inhibit the expression of
 CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
 CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
 CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
 CC receptor-2 (HER2/c-erbB2/neu), phospholamban (PLN), presenilin-1 (ps-1),
 CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
 CC nucleic acid molecules used to inhibit the expression of the said genes
 CC include hammerhead (HH), hairpin, NCH (inosyme), G-cleaver, amberyne,
 CC zinzyme, and/or DNAzyme motifs. The methods of the invention are useful
 CC for treating cancer, in particular breast cancer, Alzheimer's disease,
 CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
 CC diseases, hepatitis B infections, and hepatitis and hepatocellular
 CC carcinoma. The enzymatic nucleic acid molecules can also be used as
 CC diagnostic tools to examine genetic drift and mutations within diseased
 CC cells and to detect the presence of specific RNA in a cell. The present
 CC sequence represents a substrate/target sequence for a ribozyme used in
 CC the examples of the present invention. Note: Some SEQ ID Nos are repeated
 CC more than once in the specification, but these have different sequences
 CC associated with them.
 XX
 SQ Sequence 17 BP; 4 A; 4 C; 3 G; 6 T; 0 U; 0 Other;
 Query Match 0.8%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 64.7%; Pred. No. 5.1e+02;
 Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 GY 828 GACAGAAACUUDGCC 844
 DB 17 GACAGAAAGATTGTCC 1
 RESULT 748
 ADV64213
 ID ADV64213 standard; RNA; 17 BP.
 AC ADV64213;
 XX
 XX 10-FEB-2005 (first entry)
 DT
 DE Human Her2 class II (zinzyme) ribozyme substrate sequence #336.
 XX
 XX Enzymatic nucleic acid molecule; gene expression; down regulation;
 KW protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
 KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KW c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; inosyme; G-cleaver;
 KW hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inosyme; G-cleaver;
 KW amberyne; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KW hepatitis B infection; hepatocellular carcinoma; genetic drift; human;
 KW ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200116312-A2.
 XX
 PD 08-MAR-2001.
 XX
 PF 30-AUG-2000; 2000WO-US023998.
 XX
 XX 31-AUG-1999; 99US-0151713P.
 PR 27-SEP-1999; 99US-00406643.
 PR 27-SEP-1999; 99US-0156236P.
 PR 27-SEP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR

PA (CHIR) CHIRON CORP.
XX Pavco P, Mcswigen J, Stinchcomb D, Escobedo J;
XX WPI; 1997-259017/23.
XX
PT Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
PT rheumatoid arthritis, etc., in a human patient.
XX
PS Claim 4; Page 134; 218pp; English.
XX
CC The present invention describes nucleic acid molecules which modulate the
CC synthesis, expression and/or stability of a mRNA encoding 1 or more
CC receptors of vascular endothelial growth factor (VEGF). A patient
CC (preferably human) having a condition associated with the level of the
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
CC treated by administering the nucleic acid molecule or the expression
CC vector to the patient. AAX67275 to AAX75752 represent specific examples
CC of nucleic acid molecules from the present invention
XX
SQ Sequence 17 BP; 1 A; 5 C; 4 G; 0 T; 7 U; 0 Other;
XX
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 606 UGCCAUCUCUGUCG 622
DB 1 UGCCAUCUCUCUGC 17
XX
RESULT 743
AAV97482
ID AAV97482 standard; RNA; 17 BP.
XX
AC AAV97482;
XX
DT 17-MAR-1999 (first entry)
XX
DE Human EGF-R target sequence nucleotide position 2306.
XX
KW Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;
KW hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
KW cancer; genetic drift; detection; mutation; ss.
XX
OS Homo sapiens.
XX
PN WO9833893-A2.
XX
PD 06-AUG-1998.
XX
PF 14-JAN-1998; 98WO-US000730.
XX
PR 31-JAN-1997; 97US-0036476P.
PR 04-DEC-1997; 97US-00985162.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (UYAS-) UNIV ASTON.
XX
PI Akhtar S, Fell P, Mcswigen JA;
XX WPI; 1998-437449/37.
XX
DR WPI; 1998-437449/37.
XX
PT Enzymatic nucleic acids - which cleave RNA derived from an epidermal
PT growth factor receptor, useful for inhibiting cell proliferation and for
PT treating cancers.
XX
PS Claim 5; Page 73; 109pp; English.
XX
CC The present invention describes enzymatic nucleic acid molecules (NAs)

CC which specifically cleave RNA derived from an epidermal growth factor
CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090
CC represent specifically claimed target sequence from human EGF-R. AAV98044
CC to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and
CC hairpin ribozymes respectively for human EGF-R. The NAs are useful for
CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR
CC expression levels e.g. to inhibit cell proliferation in the prevention or
CC treatment of cancers. The NAs can also be used as diagnostic tools to
CC examine genetic drift and mutations within diseased cells or to detect
CC the presence of EGF-R RNA in a cell
XX
SQ Sequence 17 BP; 7 A; 1 C; 6 G; 0 T; 3 U; 0 Other;
XX
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 756 GAGCAUCUUAAGGAA 772
DB 1 GAGCAUCUUAAGGAA 17
XX
RESULT 744
AAA36047C
ID AAA36047 standard; DNA; 17 BP.
XX
AC AAA36047;
XX
DT 26-JUL-2000 (first entry)
XX
DE Human genomic SNP allele specific oligonucleotide SEQ ID NO:104.
XX
KW Human; single nucleotide polymorphism; SNP; genotyping; DNA analysis;
KW allele specific oligonucleotide; ASO; reduced complexity genome; RCG;
KW genomic classification; identification; DNA fingerprinting;
KW tumour characterisation; hybridisation; ss.
XX
OS Homo sapiens.
XX
PN WO200018960-A2.
XX
PD 06-APR-2000.
XX
PF 24-SEP-1999; 99WO-US022283.
XX
PR 25-SEP-1998; 98US-0101757P.
XX
PA (MASI) MASSACHUSETTS INST TECHNOLOGY.
XX
PI Landers JR, Jordan B, Housman DE, Charest A;
XX WPI; 2000-293181/25.
XX
DR WPI; 2000-293181/25.
XX
PT Detection of single nucleotide polymorphisms in genomes by preparation
PT and analysis of reduced complexity genomes, useful for genotyping,
PT fingerprinting and determining allele frequency of SNPs.
XX
PS Disclosure; Page 56; 111pp; English.
XX
CC A method has been developed for detecting the presence or absence of a
CC single nucleotide polymorphism (SNP) allele in a genomic sample. The
CC method comprises preparing a reduced complexity genome (RCG) from the
CC genomic sample and analysing the RCG for the presence or absence of a SNP
CC allele. The method can be used to characterise a tumour, to generate a
CC genomic pattern for an individual genome or to generate a genomic
CC classification code for a genome. The method can be used to assess
CC whether a subject is at risk for developing a disease or to identify a
CC set of SNP alleles associated with a disease. The method can also be used
CC to perform linkage analysis. AAA35944 to AAA35947 represent sequences
CC used in the exemplification of the present invention. AAA35948 to
CC AAA36632 represent nucleotide sequences containing SNPs
XX
SQ Sequence 17 BP; 7 A; 1 C; 2 G; 7 T; 0 U; 0 Other;

XX	Human leukocyte antigen HLA-A exon 3 probe #14.
DE	
XX	Human, ss; Human leukocyte antigen; HLA-A; probe; genotyping;
KW	tissue typing; transplantation; graft-versus-host disease.
KW	
XX	
OS	Homo sapiens.
XX	
XX	US5451512-A.
PN	
PD	19-SEP-1995.
XX	
PE	28-SEP-1993; 93US-00127954.
XX	
PR	05-NOV-1991; 91US-00788113.
XX	
PA	(HOPF) HOFFMANN LA ROCHE INC.
XX	
PI	Apple RJ, Bugawan TL, Erlich HA;
XX	
DR	WPI, 1995-336258/43.
XX	
PT	New oligo:nucleotide primers for HLA-A locus typing - used for typing
PT	tissue for e.g. transplantation(s) and identifying individuals or disease
PT	susceptibility.
XX	
PS	Disclosure; SEQ ID NO 39; 80pp; English.
XX	
CC	The invention relates to a pair of oligonucleotide (ON) primers for
CC	amplifying the exon 1-2 region of the HLA-A locus (human leukocyte
CC	antigen A), where the pair of primers consists of ONs, RAPI007 and DB337
CC	(appearing as ADG76495 and ADG76496) . Also included is a method for
CC	amplifying a region of the HLA-A locus containing the first and second
CC	exons, which consists of carrying out a PCR using the above primers. Also
CC	disclosed are HLA-A genotyping probes for exon 2 and 3 and HLA-A allele
CC	DN/protein sequences. The method is used for typing HLA Class I A locus
CC	nucleic acids for typing tissue for transplantation, determining
CC	individual identity and identifying disease susceptible individuals e.g.
CC	graft-versus-host disease. The method provides a rapid and precise system
CC	for genotyping the alleles of the HLA-A locus, including those that
CC	cannot be distinguished by serological methods. The present sequence is
CC	an HLA-A genotyping probe of the invention. Note: The disclosure states
CC	that the primers amplify exons 2 and 3, not 1 and 2 as stated in the
CC	claims.
XX	
XX	
SQ	Sequence 17 BP; 7 A; 6 C; 3 G; 1 T; 0 U; 0 Other;
	Query Match 0.8%; Score 13.8; DB 1; Length 17;
	Best Local Similarity 82.4%; Pred. No. 5.1e+02;
	Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0
CY	1420 CAGAUCAUAAGCGGAA 1436
	:
DB	1 CAGATCACCAAGCGCAA 17
RESULT 741	
AAWT1350	
ID	AAWT1350 standard; RNA; 17 BP.
XX	
AC	AAWT1350;
XX	
DT	28-JUL-1999 (first entry)
XX	
DE	Human KDR VEGF receptor hammerhead ribozyme substrate #362.
XX	
KW	Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
KW	KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
KW	tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
KW	fms-like tyrosine kinase 1; kinase insert domain containing receptor;
KW	focetal liver kinase 1; ss.
XX	
OS	Homo sapiens

[illegible]

CC patient samples is useful for diagnosis and/or prognosis of these
 CC diseases. The polypeptides can also be used to generate antibodies, and
 CC both the polypeptide and antibodies are useful as components of protein
 CC chips. The nucleic acid sequences of the invention can be used in gene
 CC therapy. This polynucleotide sequence represents a tumour suppression
 CC related human fukutin oligonucleotide of the invention
 XX

SO Sequence 17 BP; 3 A; 3 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;
 Best Local Similarity 92.9%; Pred. No. 4.9e+02;
 Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 888 ACAGCAAGCANGA 901
 DB 16 ACAGCAAGCANGA 3

RESULT 738

ACC53382/C
 ID ACC53382 standard; DNA; 17 BP.

XX ACC53382;

DT 27-JUN-2003 (first entry)

XX Human tumour suppressor sequence #2149.

XX 88; tumour suppressor; antitumour; cytostatic; tumour suppression;
 KW tumour regression; apoptosis; virus resistance; diagnosis;
 KW cellular degeneration.

XX Homo sapiens.

XX FR2826373-A1.

XX 27-DEC-2002.

XX 20-JUN-2001; 2001PR-00008139.

XX 20-JUN-2001; 2001PR-00008139.

XX (MOLE-) MOLECULAR ENGINES LAB SA.

XX Tuijinder M, Telerman A, Amson R;

XX WPI; 2003-250498/25.

XX New nucleic acid sequences associated with tumor suppression, regression,
 PT apoptosis or virus resistance are useful to diagnose and treat viral
 PT disease, development of tumor cells and cell degeneration.

XX Claim 1; Page 536; 798pp; French.

CC This sequence represents an isolated nucleic acid sequence associated
 CC with tumour suppression or regression, apoptosis or virus resistance. The
 CC invention relates to these sequences or sequences having at least 80%
 CC identity to them, and polypeptides encoded by the sequences or
 CC polypeptides having 80% identity to the polypeptide sequences. The
 CC invention is used to diagnose or treat viral disease or disease
 CC characterized by development of tumour cells or cellular degeneration
 XX

SO Sequence 17 BP; 5 A; 2 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;
 Best Local Similarity 78.6%; Pred. No. 4.9e+02;
 Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1045 UCGGCUCCUCCGA 1058
 DB 16 TCGGCTCTCTCGA 3

RESULT 739

AA130657/C
 ID AA130657 standard; DNA; 31 BP.

XX AA130657;

DT 04-NOV-2004 (revised)

DT 18-OCT-2001 (first entry)

XX Human single nucleotide polymorphism (SNP) 166.

XX Human; resequence; genotype; disease; forensic; paternity testing;
 KW single nucleotide polymorphism; SNP; ss.

XX Homo sapiens.

XX Key Location/Qualifiers
 FH variation 16
 FT /*tag= a
 FT /standard_name= "single nucleotide polymorphism"

XX WO200166800-A2.

XX 13-SEP-2001.

XX 07-MAR-2001; 2001WO-US007268.

XX 07-MAR-2000; 2000US-0187510P.

XX 22-MAY-2000; 2000US-0206129P.

XX (WHED) WHITEHEAD INST BIOMEDICAL RES.

XX Cargill M, Ireland JS, Lander ES;

XX WPI; 2001-522952/57.

XX Nucleic acid molecules from the human genome which include polymorphic
 PT sites, useful in methods for predicting the presence, absence or severity
 PT of a particular phenotype or disorder (e.g. diabetes) associated with a
 PT particular genotype.

XX Claim 1; Page 98; 145pp; English.

XX The invention relates to the identification of nucleic acid molecules
 CC (AA129513-AA131314) from the human genome which include polymorphic sites
 CC which can predispose individuals to disease. Various genes from a number
 CC of individuals were resequenced and single nucleotide polymorphisms
 CC (SNPs) in these genes discovered. The method is useful for predicting the
 CC presence, absence or severity of a particular phenotype or disorder (e.g.
 CC diabetes) associated with a particular genotype. The nucleic acids
 CC containing the polymorphic sites may be useful in forensics and paternity
 CC testing
 CC

CC Revised record issued on 04-NOV-2004 : Correction to Feature Table Key

SO Sequence 31 BP; 5 A; 12 C; 5 G; 9 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 31;
 Best Local Similarity 53.3%; Pred. No. 9.7e+02;
 Matches 16; Conservative 4; Mismatches 10; Indels 0; Gaps 0;

QY 995 GCAGCAGUACAGUGGAAACAAUAGU 1024
 DB 30 GCAGCAATGACAGTGCACAAAGTAGGTG 1

RESULT 740
 ADG76483
 ID ADG76483 standard; DNA; 17 BP.

XX ADG76483;

DT 11-MAR-2004 (first entry)

CC which involves exposing a sample (a cell lysate) comprising substrate
CC nucleic acid to the enzyme which produces at least one detectable
CC cleavage product. The enzyme is employed for detecting target DNAs and
CC RNAs comprising wild-type and mutant alleles of genes including genes
CC from humans, other animal or plants that are or may be associated with
CC disease or other conditions. In addition, the enzymes may be useful for
CC detecting and identifying strains of microorganisms including bacteria,
CC fungi, protozoa, ciliates and viruses, preferably detecting and
CC identifying viruses having RNA genomes, such as hepatitis C and human
CC immunodeficiency virus.

XX
XX Sequence 17 BP; 7 A; 4 C; 6 G; 0 T; 0 U; 0 Other;

XX
XX Query Match 0.8%; Score 14; DB 1; Length 17;
XX Best Local Similarity 50.0%; Pred. No. 4.9e+02;
XX Matches 7; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 26 CCUCGCCUUGUUU 39
DB 15 CCTGCCTTGTGTT 2

RESULT 736
ABT35752/c
ID ABT35752 standard; DNA; 17 BP.
XX
XX ABT35752;
XX
XX 12-JUN-2003 (first entry)
XX
XX Tumour suppression related human fukutin oligo SEQ ID No 1389.
XX
XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
XX antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
XX schizophrenia; protein chip; gene therapy; tumour suppression;
XX human fukutin; ds.
XX
XX Homo sapiens.
XX OS
XX WO2003025175-A2.
XX
XX 27-MAR-2003.
XX
XX 17-SEP-2002; 2002WO-1B004208.
XX
XX 17-SEP-2001; 2001FR-00011978.
XX
XX (MOLE-) MOLECULAR ENGINES LAB.
XX
XX Teleman A, Amson R, Tuijnder M;
XX
XX WPI; 2003-313353/30.
XX
XX New isolated nucleic acid, useful for treating viral diseases associated
XX with tumors and cell degeneration, also related polypeptides, antibodies
XX and transfected cells.
XX
XX Disclosure; Page 195; 720pp; French.

XX
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,
XX given in the specification, a sequence containing at least 15 consecutive
XX nucleotides from the 17 mer sequence, a sequence with, after optimal
XX alignment, at least 80 % identity to the 17 mer sequence, a sequence that
XX hybridizes to them under highly stringent conditions, or the complement
XX of any of them, or the corresponding RNA. The novel isolated nucleic
XX acids of the invention are useful as probes and primers for detecting,
XX identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
XX component of a gene chip, in vitro as (anti)sense reagents, and for
XX production of recombinant polypeptides. Any of the nucleic acids,
XX polypeptides, vectors containing the nucleic acids, cells containing the
XX vector or antibodies directed against the polypeptides are useful for
XX preparation of pharmaceuticals for prevention and/or treatment of viral
XX diseases that are characterised by development of tumours or cell

CC degeneration, specifically cancer but also Alzheimer's disease and
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
CC patient samples is useful for diagnosis and/or prognosis of these
CC diseases. The polypeptides can also be used to generate antibodies, and
CC both the polypeptide and antibodies are useful as components of protein
CC chips. The nucleic acid sequences of the invention can be used in gene
CC therapy. This polynucleotide sequence represents a tumour suppression
CC related human fukutin oligonucleotide of the invention

XX
XX Sequence 17 BP; 5 A; 2 C; 9 G; 1 T; 0 U; 0 Other;

XX
XX Query Match 0.8%; Score 14; DB 1; Length 17;
XX Best Local Similarity 78.6%; Pred. No. 4.9e+02;
XX Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1045 UCCGCCUCCUCCGA 1058
DB 16 TCCGCCTCCTCCGA 3

RESULT 737
ABT39960/c
ID ABT39960 standard; DNA; 17 BP.
XX
XX ABT39960;
XX
XX 13-JUN-2003 (first entry)
XX
XX Tumour suppression related human fukutin oligo SEQ ID No 5597.
XX
XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
XX antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
XX schizophrenia; protein chip; gene therapy; tumour suppression;
XX human fukutin; ds.
XX
XX Homo sapiens.
XX OS
XX WO2003025175-A2.
XX
XX 27-MAR-2003.
XX
XX 17-SEP-2002; 2002WO-1B004208.
XX
XX 17-SEP-2001; 2001FR-00011978.
XX
XX (MOLE-) MOLECULAR ENGINES LAB.
XX
XX Teleman A, Amson R, Tuijnder M;
XX
XX WPI; 2003-313353/30.
XX
XX New isolated nucleic acid, useful for treating viral diseases associated
XX with tumors and cell degeneration, also related polypeptides, antibodies
XX and transfected cells.
XX
XX Disclosure; Page 688; 720pp; French.

XX
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,
XX given in the specification, a sequence containing at least 15 consecutive
XX nucleotides from the 17 mer sequence, a sequence with, after optimal
XX alignment, at least 80 % identity to the 17 mer sequence, a sequence that
XX hybridizes to them under highly stringent conditions, or the complement
XX of any of them, or the corresponding RNA. The novel isolated nucleic
XX acids of the invention are useful as probes and primers for detecting,
XX identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
XX component of a gene chip, in vitro as (anti)sense reagents, and for
XX production of recombinant polypeptides. Any of the nucleic acids,
XX polypeptides, vectors containing the nucleic acids, cells containing the
XX vector or antibodies directed against the polypeptides are useful for
XX preparation of pharmaceuticals for prevention and/or treatment of viral
XX diseases that are characterised by development of tumours or cell
XX degeneration, specifically cancer but also Alzheimer's disease and
XX schizophrenia. Analysis of the expression of the 17 mer nucleic acids in

SQL Sequence 18 BP; 2 A; 2 C; 12 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 4.9e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1180 GAGGAGCTGGGGAUGG 1195

DB 1 GAGGGGCTGGGGAUGG 16

RESULT 732

AED16009/C

ID AED16009 standard; DNA; 18 BP.

AC AED16009;

DT 15-DEC-2005 (first entry)

DE Probe for blood cell antigen HPA3-allele a, HPA-3ab.

KM Probe; ss; blood; DNA typing; blood transfusion; blood group;

KW SNP detection; DNA microarray.

OS Homo sapiens.

PN WO2005095650-A1.

PD 13-OCT-2005.

PF 31-MAR-2005; 2005WO-NL000236.

PR 01-APR-2004; 2004EP-00076046.

PA (SANO-) STRICHTING SANQUIN BLOEDVOORZIENING.

PI Belboer SHW, Wieringa-Jelma H, Den Dunnen JT, De Haas M;

XX WPI; 2005-725532/74.

PT Genotyping blood cell antigens, by amplifying and detectably labeling DNA by multiplex PCR at region of locus of blood cell antigen containing PT nucleotide polymorphism, determining genotype for blood cell antigens using chimeric primers.

PS Claim 13; SEQ ID NO 82; 80bp; English.

XX The invention relates to genotyping (M1) blood cell antigens, comprising CC subjecting DNA from the individual to a multiplex PCR to amplify (and CC detectably label) a region of the locus of different blood cell antigens CC containing the site of a nucleotide polymorphism (arranged in an array) CC and using the amplified and labeled DNA fragments to determine the CC genotype for each of the blood cell antigens, using a pair of blood cell CC antigen-specific chimeric primers and a detectably labeled universal CC primer. Also included are a kit (I) for genotyping blood cell antigens by CC (M1) comprising a pair of blood cell antigen-specific chimeric primers CC for each blood cell antigen to be genotyped and a detectably labeled CC universal primer, preferably a pair of detectably labeled universal CC primers), a set of blood cell antigen-specific chimeric primer pairs CC useful in a multiplex PCR (comprising at least two, preferably CC substantially all of chimeric primers) and a set of blood cell antigen CC allele-specific oligonucleotide probes useful for genotyping blood cell CC antigens. (M1) enables genotyping of large number of blood cell antigens CC and is a practical, rapid and reliable method for analyzing the CC hybridization results to assign the clinically relevant blood cell CC antigen genotypes. The present sequence is a blood group antigen specific CC probe useful in the method of the invention.

XX Sequence 18 BP; 2 A; 12 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 4.9e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1180 GAGGAGCTGGGGAUGG 1195

DB 18 GAGGGGCTGGGGAUGG 3

RESULT 733

AAZ44479

ID AAZ44479 standard; DNA; 16 BP.

AC AAZ44479;

DT 07-APR-2000 (first entry)

DE Tomato restriction fragment amplification primer 1 from set 1.

KW Detection; forensic; restriction fragment polymorphism; multiplex PCR;

KM primer; ss.

OS Lycopersicon esculentum.

PN EP969102-A2.

PD 05-JAN-2000.

PF 24-SEP-1992; 99EP-00115309.

PR 24-SEP-1991; 91EP-00402542.

PR 24-SEP-1992; 92EP-00402629.

PA (KEYG-) KEYGENE NV.

PI Zabeau M, Vos P;

XX WPI; 2000-099430/09.

PT New oligonucleotides, useful for tagging restriction fragments for genetic diagnosis.

XX Example 1G; Page 12; 42pp; English.
XX This invention describes a novel oligonucleotide (I) comprising an CC adapter sequence and part of the target sequence of a restriction CC endonuclease, and which has 1-10 selected nucleotides immediately CC adjacent to the 3' end of the target sequence. The products of the CC invention are used to tag restriction fragments which are to be amplified CC by the polymerase chain reaction (PCR). This technique may be used in the CC detection of restriction fragment polymorphisms (RFPs), including length CC polymorphisms. The products can also be used for genetic analysis, such CC as for the forensic typing of humans and the detection of the inheritance CC of determined traits in animals or plants and to monitor several diseases CC at once. The oligonucleotides and kits may also be used to identify CC species, races or varieties of animals or plants. The new adapters, CC oligonucleotides and methods for using them are more sensitive for CC detecting restriction fragment polymorphisms because not only differences CC in the target sites of the restriction endonuclease are detected as with CC prior art methods and oligonucleotides but also differences in the CC adjacent nucleotide sequences within the selective PCR primers. Multiplex CC PCR may only be used to monitor 5-8 different traits simultaneously and CC compromise conditions have to be established to allow all primer pairs to CC yield detectable products. In addition there are strong differences in CC the efficiency of amplification of different fragments and products of CC certain primer pairs are not detectable with multiplex PCR. In contrast, CC using the new techniques, all the primers have a substantial part of CC their nucleotide sequence in common and by selecting Amplified Fragment CC length Polymorphisms, the DNA markers are amplified with equal CC efficiency. AAZ44475-244526 represent primers used to illustrate the CC method of the invention

XX Sequence 16 BP; 4 A; 6 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 16;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;

Query Match 0.8%; Score 14.4; DB 1; Length 18;
 Best Local Similarity 75.0%; Pred. No. 4.9e+02;
 Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1194 GCGACGACGACGACG 1209
 ||:|||||:
 Db 17 GGTGACCTGGCGAGG 2

RESULT 730
 AEB19149
 ID AEB19149 standard; DNA; 18 BP.
 AC AEB19149;
 XX
 XX 08-SEP-2005 (first entry)
 DT
 XX
 DE Primer B021FPB for PCR of region in monoamine oxidase gene.
 XX
 XX DNA sequencing; primer extension; immobilization; DNA amplification;
 KW luminescence; ss; primer; PCR; monoamine oxidase.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1
 FT /tag= a
 FT /mod_base
 FT /note= "Labelled with biotin"
 FT
 FT
 PN WO2005060345-A2.
 PD 07-JUL-2005.
 XX
 PD 20-DEC-2004; 2004WO-1B004438.
 PF
 XX 22-DEC-2003; 2003SE-00003473.
 PR 23-DEC-2003; 2003US-0531620P.
 XX
 XX (BIOT-) BIOTAGE AB.
 PA
 PI Tooke N, Hagerlid P, Ekstrom B;
 XX
 DR WPI; 2005-522055/53.
 XX
 PT Tubular member useful for performing sequencing by a synthesis reaction,
 PT comprises an axial bore, one end of which is releasably insertable over a
 PT nozzle of a pipettor to connect the tubular member to the pipettor.
 XX
 PS Example 6; SEQ ID NO 5; 49pp; English.

The present invention relates to a tubular member, such as a pipette tip, for binding nucleic acid molecules for a subsequent biomolecular reaction, to methods for at least partly performing a sequencing -by- synthesis reaction in a tubular member, as well as to an automated system using the tubular member for performing the methods of the invention. Claimed is an automated system for performing sequencing by synthesis reaction using (1), comprising at least one pipettor allowing one or more of (1) to be releasably insertable over the nozzle of the pipettor to connect (1) to the pipettor, and mode for controlling the system; a kit for performing a sequencing reaction, comprising: (1), and reagents for performing primer extension or reagents for performing pyrophosphate detection; or (1) for performing a sequencing -by- synthesis reaction, a pipette tip adapted for purifying the template nucleic acid sample to be used in a subsequent sequencing -by- synthesis reaction, and reagents for performing primer extension or reagents for performing pyrophosphate detection; and a computer program (CP) for causing a computerized apparatus to determine the identity of at least one nucleotide in a nucleic acid molecule. An enzyme mix, comprising nucleic acid polymerase, endonuclease and luciferase, substrate, comprising APS and luciferin, and a dNTP is aspirated into (1) under conditions allowing extension of an oligonucleotide primer if the chosen dNTP is complementary to the template in the position directly adjacent to the 3'-end of the primer.

CC Detection involves a light detection device, such as a charge-coupled device (CCD) camera, phototransistor or photomultiplier tube. The present CC sequence is primer B021FPB for PCR of region around the SNP rs6276 in CC monoamine oxidase gene.
 XX
 SQ Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 18;
 Best Local Similarity 81.2%; Pred. No. 4.9e+02;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1604 UCAACGACGCCGUGAA 1619
 :|||||:
 Db 3 TCAACGACGCCGTGAA 18

RESULT 731
 AED16016
 ID AED16016 standard; DNA; 18 BP.
 XX
 AC AED16016;
 XX
 DT 15-DEC-2005 (first entry)
 DT
 XX
 DE Probe for blood cell antigen HPA3-allele a, HPA-3ab CR.
 XX
 XX Probe; ss; blood; DNA typing; blood transfusion; blood group;
 KW SNP detection; DNA microarray.
 XX
 OS Homo sapiens.
 XX
 PN WO2005095650-A1.
 PD 13-OCT-2005.
 XX
 PD 31-MAR-2005; 2005WO-NL000236.
 PF
 XX 01-APR-2004; 2004EP-00076046.
 PR
 XX
 XX (SANG-) STICHTING SANQUIN BLOEDVOORZIENING.
 PA
 PI Beijboer SHW, Wieringa-Jelma H, Den Dunnen JT, De Haas M;
 XX
 DR WPI; 2005-725532/74.
 XX
 PT Genotyping blood cell antigens, by amplifying and detectably labelling DNA
 PT by multiplex PCR at region of locus of blood cell antigen containing
 PT nucleotide polymorphism, determining genotype for blood cell antigens
 PT using chimeric primers.
 XX
 PS Chaim 13; SEQ ID NO 89; 80pp; English.

The invention relates to genotyping (M1) blood cell antigens, comprising CC subcloning DNA from the individual to a multiplex PCR to amplify (and CC detectably label) a region of the locus of different blood cell antigens CC containing the site of a nucleotide polymorphism (arranged in an array) CC and using the amplified and labeled DNA fragments to determine the CC genotype for each of the blood cell antigens, using a pair of blood cell CC antigen-specific chimeric primers and a detectably labeled universal CC primer. Also included are a kit (1) for genotyping blood cell antigens by CC (M1) (comprising a pair of blood cell antigen-specific chimeric primers CC for each blood cell antigen to be genotyped and a detectably labeled CC universal primer, preferably a pair of detectably labeled universal CC primers), a set of blood cell antigen-specific chimeric primer pairs CC useful in a multiplex PCR (comprising at least two, preferably CC substantially all of chimeric primers) and a set of blood cell antigen CC allele-specific oligonucleotide probes useful for genotyping blood cell CC antigens. (M1) enables genotyping of large number of blood cell antigens CC and is a practical, rapid and reliable method for analyzing the CC hybridization results to assign the clinically relevant blood cell CC antigen genotypes. The present sequence is a blood group antigen specific CC probe useful in the method of the invention.

PI Garner HR, Wren JD, Minna JD, Fondon JW;
 XX WPI; 2003-208818/20.
 DR
 XX Identifying a candidate polymorphic repeat within a coding sequence, for
 PT understanding or treating genetic disease, comprises detecting tandem
 PT repeats in a target coding sequence and scoring the repeats for
 PT polymorphic probability.
 XX
 PS Example; Col 1089; 588pp; English.
 XX
 CC The invention discloses a method for identifying a candidate polymorphic
 CC repeat within a coding sequence (expressed sequence tag, EST), which
 CC comprises detecting tandem repeats in a target coding sequence, scoring
 CC the repeats for polymorphic probability and generating a dataset
 CC correlating the repeats with polymorphic probability to identify a
 CC candidate polymorphic repeat. The computational methods (polymorphic
 CC marker prediction of ubiquitous simple sequences, POMPOS, and Rep-X) are
 CC useful for identifying and detecting candidate polymorphic repeats in
 CC human genes, which can be used to understand, treat or eliminate genetic
 CC diseases, predispositions or adverse drug-treatment reactions. Examples
 CC of diseases linked to nucleotide repeats are Machado-Joseph, Haw River
 CC syndrome, Huntington's disease, fragile-X syndrome, Friedrich's ataxia,
 CC myotonic dystrophy, hyperandrogenaemia, spinal and bulbar atrophy and
 CC spinocerebellar ataxia. The sequences presented in ABX79676-ABX80022 are
 CC the polymorphic repeats identified for a search of human ESTs
 XX
 SQ Sequence 18 BP; 4 A; 5 C; 8 G; 1 T; 0 U; 0 Other;
 XX
 Query Match 0.8%; Score 14.4; DB 1; Length 18;
 Best Local Similarity 93.8%; Pred. No. 4.9e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1701 GAGGCGCAACGACGAG 1716
 Db 1 GAGGCGCGAGCAGCAG 16
 XX
 RESULT 728
 ADD56523
 ID ADD56523 standard; DNA; 18 BP.
 AC
 XX ADD56523;
 AC
 XX 15-JAN-2004 (first entry)
 DT
 XX Human gene expression analysis multiplex Start-PCR primer #43.
 DE
 XX Gene expression; multiplex standardised reverse transcriptase-PCR;
 XX Start-PCR: high density oligonucleotide array; cDNA array;
 KW small biological sample; fine needle aspirate biopsy;
 KW laser captured microdissected material; human; primer; ss.
 XX
 OS Homo sapiens.
 XX
 OS US2003186246-A1.
 PN
 XX 02-OCT-2003.
 PD
 XX 28-MAR-2002; 2002US-00109349.
 PF
 XX 28-MAR-2002; 2002US-00109349.
 PR
 XX 28-MAR-2002; 2002US-00109349.
 XX
 PA (WILLI) WILLI J C.
 PA (CRAWF) CRAWFORD B L.
 XX
 PI Willey JC, Crawford BL;
 XX
 XX WPI; 2003-811730/76.
 DR
 XX Direct comparison of numerical gene expression values between samples of
 PT genes comprises using multiplex standardized reverse transcription-
 PT polymerase chain reaction.

XX
 PS Example 1; SEQ ID NO 43; 59pp; English.
 XX
 CC The present invention relates to a method for the direct comparison of
 CC numerical gene expression values between samples of genes. The method
 CC comprises amplifying cDNA in the presence of a competitive template
 CC mixture and primer pairs for several genes and then amplifying aliquots
 CC of the PCR products using a primer pair specific for each gene. The
 CC method of amplification is by multiplex standardised reverse
 CC transcriptase-polymerase chain reaction (Start-PCR). High density
 CC oligonucleotide or cDNA arrays are used to measure PCR products following
 CC quantitative Start-PCR. The method is useful for the assessment of gene
 CC expression in small biological samples such as fine needle aspirate
 CC biopsies, and laser captured microdissected materials. The method allows
 CC for the standardised measurement of hundreds of genes from the same
 CC sample, which in prior art, could only be assessed for one gene. The
 CC present sequence represents a multiplex Start-PCR primer which can be
 CC used in the method of the present invention.
 XX
 SQ Sequence 18 BP; 4 A; 5 C; 7 G; 2 T; 0 U; 0 Other;
 XX
 Query Match 0.8%; Score 14.4; DB 1; Length 18;
 Best Local Similarity 87.5%; Pred. No. 4.9e+02;
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 OY 1221 GCTGCGAGCCCTGAG 1236
 Db 1 GCTGCGAGCCCTGAG 16
 XX
 RESULT 729
 ADD82758/C
 ID ADD82758 standard; DNA; 18 BP.
 AC
 XX ADD82758;
 AC
 XX 21-APR-2005 (first entry)
 DT
 XX Mediterranean anemia diagnosis chip-related oligonucleotide SeqID209.
 DE
 XX anemia; DNA chip; alpha-globulin; beta-globulin; ss.
 KW
 XX Unidentified.
 OS
 XX CN1453363-A.
 PN
 XX 05-NOV-2003.
 PD
 XX 23-APR-2002; 2002CN-00117287.
 PF
 XX 23-APR-2002; 2002CN-00117287.
 PR
 XX (YANE-) YANENG BIOTECHNOLOGY SHENZHEN CO LTD.
 PA
 XX Yang M;
 PI
 XX WPI; 2004-157428/16.
 DR
 XX DNA chip for diagnosing Mediterranean anemia, comprises substrate and
 PT probe fixed onto the substrate based on alpha- and beta-globulin mutant
 PT gene sequence.
 XX
 PS Claim 11; SEQ ID NO 209; 66pp; Chinese.
 XX
 CC This invention relates to a novel DNA chip for diagnosing Mediterranean
 CC anemia. The invention comprises substrate and a probe fixed onto the
 CC substrate based on alpha- and beta-globulin mutant gene sequence. The DNA
 CC chip has high diagnosing efficiency and accuracy, low cost and short
 CC diagnosis time. The present sequence is that of an oligonucleotide which
 CC was used in the exemplification of the invention.
 XX
 SQ Sequence 18 BP; 3 A; 11 C; 2 G; 2 T; 0 U; 0 Other;
 XX

QY 1393 AAGAGUUUGUCUCUGA 1408
 |||||::|||::|
 DB 2 AAGAGTTTGTCTCA 17

RESULT 725
 AAC66362
 ID AAC66362 standard; DNA; 18 BP.
 AC AAC66362;
 XX
 DT 22-FEB-2001 (first entry)
 XX
 DE PCR primer used method to detect micro-organisms.
 XX
 KW Detection; microorganism; environmental decontamination; decomposition;
 KW organic halogen compound; PCR primer; ss.
 XX
 OS Unidentified.
 XX
 PN JP2000253880-A.
 PD 19-SEP-2000.
 XX
 PF 10-MAR-1999; 99UP-00062469.
 XX
 PR 10-MAR-1999; 99UP-00062469.
 XX
 PA (TOKE) TOSHIBA KK.
 XX
 DR WPI; 2000-608063/58.
 XX
 PT A method for detection of useful microorganisms and a method for
 PT environmental decontamination with them.
 XX
 PS Example 1; Page 7; 8pp; Japanese.
 XX
 CC Oligonucleotides AAC66355 - AAC66360 are used in a method for the
 CC detection of microorganisms. Micro-organisms are isolated by the presence
 CC of the six nucleotide sequences. The micro-organisms isolated by this
 CC method are used for environmental decontamination and the decomposition
 CC of organic halogen compounds. The present sequence represents a PCR
 CC primer used in an example illustrating the method of the invention
 XX
 SQ Sequence 18 BP; 4 A; 7 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 18;
 Best Local Similarity 75.0%; Pred. No. 4.9e+02;
 Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 150 CUCUCGACGCGUACC 165
 ||:|||||:
 DB 2 CTTTCAGACGGTACC 17

RESULT 726
 AAH91930
 ID AAH91930 standard; DNA; 18 BP.
 XX
 AC AAH91930;
 XX
 DT 09-OCT-2001 (first entry)
 XX
 DE Human inflammatory bowel disease associated polymorphic site #1005.
 XX
 KW Human; inflammatory bowel disease; Crohn's disease; ulcerative colitis;
 KW single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;
 KW chromosome 5q31-33; forensic test; gene therapy; ds.
 XX
 OS Homo sapiens.
 XX
 PN Key Location/Qualifiers
 FT misc_feature 11

FT /*tag= a
 FT /note="SNP, optionally A or G at this position"
 XX
 PN WO200142511-A2.
 XX
 PD 14-JUN-2001.
 XX
 PF 11-DEC-2000; 2000WO-US033632.
 XX
 PR 10-DEC-1999; 99US-0170257P.
 XX
 PR 10-APR-2000; 2000US-0196046P.
 XX
 PA (WHEED) WHITEHEAD INST BIOMEDICAL RES.
 PA (ELI-) ELIPSIS BIOTHERAPEUTICS CORP.
 XX
 PI Daly M, Hudson TJ, Lander ES, Rioux J, Siminovitch K;
 XX
 DR WPI; 2001-367874/38.
 XX
 PT Testing for the presence of polymorphisms associated with inflammatory
 PT bowel disease, using a hybridization assay.
 XX
 PS Claim 1; Page 81; 463pp; English.
 XX
 CC The present invention describes a method for detecting the presence of
 CC polymorphisms associated with inflammatory bowel diseases such as
 CC ulcerative colitis and Crohn's disease. The methods can be used to detect
 CC the presence of genetic polymorphisms associated with inflammatory bowel
 CC disease and correlating their occurrence with disease states. They may be
 CC used in this way for phenotypic correlations, forensics, paternity
 CC testing, medicine and genetic analysis. The present sequence is a
 CC polymorphic site described in the exemplification of the invention
 XX
 SQ Sequence 18 BP; 3 A; 5 C; 4 G; 5 T; 0 U; 1 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 18;
 Best Local Similarity 70.6%; Pred. No. 4.9e+02;
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1112 UGCCGGUACAGCACC 1128
 ::|||::|||
 DB 1 TTCCGGGTCAAGTACC 17

RESULT 727
 ABX79924
 ID ABX79924 standard; cDNA; 18 BP.
 XX
 AC ABX79924;
 XX
 DT 17-APR-2003 (first entry)
 XX
 DE EST polymorphic DNA repeat polynucleotide #249.
 XX
 KW EST; expressed sequence tag; ss; polymorphic repeat; tandem repeat;
 KW polymorphic marker prediction of ubiquitous simple sequences; POMPOUS;
 KW Rep-X; human; genetic disease; drug-treatment; Machado-Joseph;
 KW Haw River syndrome; Huntington's disease; fragile-X syndrome;
 KW Freidreich's ataxia; myotonic dystrophy; hyperandrogenaemia;
 KW spinal atrophy; bulbar atrophy; spinocerebellar ataxia.
 XX
 OS Homo sapiens.
 XX
 PN US6472154-B1.
 XX
 PD 29-OCT-2002.
 XX
 PF 31-DEC-1999; 99US-00475947.
 XX
 PR 31-DEC-1999; 99US-00475947.
 XX
 PA (TEKA) UNIV TEXAS SYSTEM.
 XX

RESULT 723

ADM59618/C
ID ADM59618 standard; RNA; 17 BP.

XX AC ADM59618;

XX DT 03-JUN-2004 (first entry)

XX DE Hepatitis B virus (HBV) RNA target sequence #1752.

XX XX Hepatitis B virus; HBV; ss; enzymatic nucleic acid; RNA cleavage;
KW Hepatitis B virus infection; hepatitis; hepatocellular carcinoma;
KW cirrhosis; liver failure; lamivudine; interferon; genetic drift;
KW virocidic; hepatotropic; antiinflammatory; cyrostatic.

XX OS Hepatitis B virus.

XX PN US2004054156-A1.

XX PD 18-MAR-2004.

XX PF 15-JAN-2003; 2003US-00342902.

XX PR 14-MAY-1992; 92US-00882712.

XX PR 07-FEB-1994; 94US-00193627.

XX PR 08-NOV-1999; 99US-00436430.

XX PR 20-MAR-2000; 2000US-00531025.

XX PR 09-AUG-2000; 2000US-00636385.

XX PR 24-OCT-2000; 2000US-00696347.

XX PR 08-JUN-2001; 2001US-00877478.

XX PA (DRAP/) DRAPER K.

XX PA (BLAT/) BLATT L.

XX PA (MCSW/) MCSWIGGEN J A.

XX PA (MORR/) MORRISSEY D.

XX PI Draper K, Blatt L, Mcswiggen JA, Morrissey D;

XX DR WPI; 2004-247781/23.

XX PT Novel enzymatic nucleic acid molecule such as DNAzymes and inozymes
XX specifically cleaving RNA derived from hepatitis B virus and comprising
XX one or more binding arms, useful for treating hepatitis and cirrhosis.

XX BS Disclosure; SEQ ID NO 1752; 122pp; English.

XX CC The invention relates to an enzymatic nucleic acid molecule that
XX specifically cleaves RNA derived from hepatitis B virus (HBV) and
XX comprising one or more binding arms, without requiring the presence of a
XX 2'-OH group within the molecule for activity. The nucleic acids are
XX useful for treating hepatitis B virus infection, hepatitis,
XX hepatocellular carcinoma, cirrhosis and liver failure, either alone or in
XX combination with other therapies such as lamivudine and interferons. The
XX nucleic acids are useful as diagnostic tools to examine genetic drift and
XX mutations within diseased cells, for detecting the presence of HBV RNA in
XX a cell, for the study of RNA and for down-regulating gene expression of
XX target genes in bacterial, fungal, viral, plant or mammalian cells. This
XX sequence represents an HBV RNA target sequence, used in the scope of the
XX invention. Note: The sequence data for this patent is also available in
XX electronic format from USPTO at seqdata.uspto.gov/sequence.html.

XX SQ Sequence 17 BP; 4 A; 7 C; 3 G; 0 T; 3 U; 0 Other;

XX Query Match 0.8%; Score 14.4; DB 1; Length 17;

XX Best Local Similarity 68.8%; Pred. No. 4.4e+02;

XX Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 1527 CAUGGUCUGGUGAAC 1542
Db 16 CAGGCTGCTGGTGAAC 1

RESULT 724

AAA95979
ID AAA95979 standard; DNA; 18 BP.

XX AC AAA95979;

XX DT 19-JAN-2001 (first entry)

XX DE TRAF-3 exon 2 5' splice donor site.

XX XX Human; TRAF-3; tumour necrosis factor receptor-associated factor 3;
KW delta130 TRAF-3; delta221 TRAF-3; immunosuppressive; antiarthritic;
KW dermatological; antiinflammatory; antianemic; antipsoaritic;
KW antidiabetic; antihypertoid; antitumour; anti-HIV; antibacterial;
KW uropathic; ophthalmological; antiallergic; antiatherosclerotic;
KW vasotropic; neuroprotective; haemostatic; CD40 signalling inhibitor;
KW gene therapy; necrosis factor kappaB activator; autoimmune disease;
KW infectious disease; allergy; 5' splice donor site; ds.

XX OS Homo sapiens.

XX PN WO200053629-A1.

XX PD 14-SEP-2000.

XX PF 10-MAR-2000; 2000WO-US006503.

XX PR 11-MAR-1999; 99US-00268544.

XX PA (UYCO) UNIV COLUMBIA NEW YORK.

XX PI Lederman S, Van Eynhoven W;

XX DR WPI; 2000-587425/55.

XX PT Novel tumor necrosis factor (TNF) receptor-associated factor deletion
XX isoforms for identifying an agent that inhibits CD-40 mediated cellular
XX signaling and for inhibiting e.g. rheumatoid arthritis and diabetes
XX mellitus.

XX PS Example 2; Fig 14; 170pp; English.

XX CC The present sequence is the 5' splice donor site of exon 2 of the gene
XX encoding tumour necrosis factor receptor (TNF)-associated factor 3 (TRAF-
XX 3). A number of TRAF-3 mRNA species have been identified and some of
XX these arise as a result of alternative mRNA splicing. TRAF-3 isoforms,
XX including delta130 and delta221 TRAF-3 deletion isoforms, are useful for
XX inhibiting activation of a CD40 ligand on a wide range of cells including
XX B cells, fibroblasts, endothelial cells, epithelial cells, T cells,
XX basophils, macrophages, Reed-Steinberg cells, dendritic cells, renal
XX cells or smooth muscle cells expressing CD40 on the cell surface. The
XX proteins are also useful for treating conditions associated with CD40-
XX mediated intracellular signaling, such as organ rejection as a result of
XX transplantation or an immune response after receiving gene therapy. It
XX may be useful for treating an CD40-dependent immune response in patients
XX suffering from an autoimmune disease such as rheumatoid arthritis,
XX myasthenia gravis, systemic lupus erythematosus, Grave's disease,
XX idiopathic thrombocytopenia purpura, haemolytic anemia, diabetes
XX mellitus, a drug-induced autoimmune disease (drug-induced lupus),
XX psoriasis or hyper immunoglobulin (IgE syndrome. The proteins may also
XX be used to treat an immune response associated with an infectious disease
XX such as Reiter's syndrome, spondylarthritis, Lyme disease, human
XX immunodeficiency virus (HIV) infection, syphilis or tuberculosis. They
XX may be used to treat an allergic response, atherosclerosis, reperfusion
XX injury and chronic inflammatory autoimmune diseases such as vasculitis,
XX scleroderma or multiple sclerosis

XX SQ Sequence 18 BP; 4 A; 3 C; 6 G; 5 T; 0 U; 0 Other;

XX Query Match 0.8%; Score 14.4; DB 1; Length 18;

XX Best Local Similarity 62.5%; Pred. No. 4.9e+02;

XX Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

CC recombinant polypeptides. The oligonucleotides are useful for preparation
CC of pharmaceuticals for prevention and/or treatment of viral diseases that
CC are characterized by development of tumours or cell degeneration,
CC specifically cancer but also Alzheimer's disease and schizophrenia
XX
SQ Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 17;
Best Local Similarity 62.5%; Pred. No. 4.4e+02;
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 473 AUCUUCUGUCAUACG 488
Db 2 ATCTGCTGCTCATCAG 17

RESULT 721
ACC64380/C
ID ACC64380 standard; DNA; 17 BP.

AC ACC64380;
DT 01-JUL-2003 (first entry)

DE Murine oligonucleotide associated with tumour suppression, SEQ ID 1627.

XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;
KM tumour suppression; tumour reversion; apoptosis; virus resistance;
KM viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;
KM schizophrenia; ss.

OS Mus musculus.

PN WO2003025176-A2.

PD 27-MAR-2003.

PF 17-SEP-2002; 2002WO-IB004210.

PR 17-SEP-2001; 2001PR-00011979.

PA (MOLE-) MOLECULAR ENGINES LAB.

PI Telerman A, Amson R, Tuijinder M;

DR WPI; 2003-333167/31.

XX New isolated nucleic acid, useful for treating viral diseases associated
PT with tumour and cell degeneration, also related polypeptides, antibodies
PI and transfected cells.

PS Disclosure; Page 221; 738pp; French.

XX The present invention relates to murine oligonucleotides (ACC62754-
CC ACC68806), which are associated with tumour suppression, tumour
CC reversion, apoptosis and virus resistance. The oligonucleotides are
CC useful as (1) as probes and primers for detecting, identifying,
CC quantifying and/or amplifying nucleic acid, e.g. as one component of a
CC gene chip; in vitro as (anti)sense reagents; and (2) for production of
CC recombinant polypeptides. The oligonucleotides are useful for preparation
CC of pharmaceuticals for prevention and/or treatment of viral diseases that
CC are characterized by development of tumours or cell degeneration,
CC specifically cancer but also Alzheimer's disease and schizophrenia
XX

SQ Sequence 17 BP; 3 A; 8 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 17;
Best Local Similarity 81.2%; Pred. No. 4.4e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1178 AGGAGAGCUCGCGGAU 1193
Db 17 AGTACGAGCTCGGGAT 2

RESULT 722
ADMS9672
ID ADMS9672 standard; RNA; 17 BP.

AC ADMS9672;

DT 03-JUN-2004 (first entry)

DE Hepatitis B virus (HBV) RNA target sequence #1806.

XX Hepatitis B virus; HBV; ss; enzymatic nucleic acid; RNA cleavage;
KM hepatitis B virus infection; hepatitis; hepatocellular carcinoma;
KM cirrhosis; liver failure; lamivudine; interferon; genetic drift;
KM virucide; hepatotropic; antiinflammatory; cyostatic.

OS Hepatitis B virus.

PN US2004054156-A1.

PD 18-MAR-2004.

PF 15-JAN-2003; 2003US-00342902.

PR 14-MAY-1992; 92US-00882712.

PR 07-FEB-1994; 94US-00193627.

PR 08-NOV-1999; 99US-00436430.

PR 20-MAR-2000; 2000US-00531025.

PR 09-AUG-2000; 2000US-00636385.

PR 24-OCT-2000; 2000US-00696347.

PR 08-JUN-2001; 2001US-00877478.

XX (DRAP/) DRAPER K.

PA (BLAT/) BLATT L.

PA (MCSW/) MCSWIGGEN J A.

PA (MORR/) MORRISSEY D.

PI Draper K, Blatt L, Mcswiggen JA, Morrissey D;

DR WPI; 2004-247781/23.

XX Novel enzymatic nucleic acid molecule such as DNAs and inozymes
PT specifically cleaving RNA derived from hepatitis B virus and comprising
PT one or more binding arms, useful for treating hepatitis and cirrhosis.

XX Disclosure; SEQ ID NO 1806; 122pp; English.

XX The invention relates to an enzymatic nucleic acid molecule that
CC specifically cleaves RNA derived from hepatitis B virus (HBV) and
CC comprising one or more binding arms, without requiring the presence of a
CC 2'-OH group within the molecule for activity. The nucleic acids are
CC useful for treating hepatitis B virus infection, hepatitis,
CC hepatocellular carcinoma, cirrhosis and liver failure, either alone or in
CC combination with other therapies such as lamivudine and interferons. The
CC nucleic acids are useful as diagnostic tools to examine genetic drift and
CC mutations within diseased cells, for detecting the presence of HBV RNA in
CC a cell, for the study of RNA and for down-regulating gene expression of
CC target genes in bacterial, fungal, viral, plant or mammalian cells. This
CC sequence represents an HBV RNA target sequence, used in the scope of the
CC invention. Note: The sequence data for this patent is also available in
CC electronic format from USPTO at seqdata.uspto.gov/sequence.html.

SQ Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 0.8%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 4.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1501 AUCACACUCUGACCC 1516
Db 2 AUCACACUCUGACCC 17

PA (RIBO-) RIBOZYME PHARM INC.

PI McSwain J, Usman N, Blatt L, Beigelman L, Burgin A,
PI Karpelsky A, Matulic-Adamic J, Draper K, Chowrira B,
PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
XX WPI; 2001-244406/25.

PT Enzymatic nucleic acid molecules able to cleave separate RNA molecules
PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
PT obesity and heart disease.

PS Example 6; Page 544; 717pp; English.

The present invention relates to the use of enzymatic nucleic acid molecules (e.g. ribozymes) to modulate gene expression. The invention also methods for their use to down regulate or inhibit the expression of genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine aminopeptidase (MePAP-2), human telomerase (hTERT), protein kinase C alpha (PKC alpha), c-erbB-sectase (BACs), human epidermal growth factor receptor-2 (HERA/erbB-neu), phospholamban (PLN), prelinin-1 (ps-1) prelinin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic nucleic acid molecules used to inhibit the expression of the said genes include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme, zinczyme, and/or DNAzyme motifs. The methods of the invention are useful for treating cancer, in particular breast cancer, Alzheimer's disease, diabetes, obesity, cardiac diseases e.g. heart disease, age-related diseases, hepatitis B infections, and hepatitis and hepatocellular carcinomas. The enzymatic nucleic acid molecules can also be used as diagnostic tools to examine genetic drift and mutations within diseased cells and to detect the presence of specific RNA in a cell. The present sequence represents a substrate for a Ribozyme used in the examples of the present invention. Note: Some SEQ ID Nos are repeated more than once in the specification, but these have different sequences associated with them.

SQ Sequence 17 BP; 4 A; 7 C; 3 G; 0 T; 3 U; 0 Other;

Query Match	0.88;	Score 14.4;	DB 1;	Length 17;
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      Local identity: 88.8%;  Field NO: 3.4e702;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

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Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

QY 1527 CAUGGUCTUGGUAAC 1542

Db 16 CATGGTCTGTTGAC 1

RESULT 716

ADV49459/c

ID ADV49459 standard; RNA; 17 BP.

AC ADV49459;

DT 10-FEB-2005 (first entry)

HBV DNAzyme substrate sequence #271.

KM Enzymatic: nucleic acid molecule; gene expression; down regulation;
KM protein-tyrosine-phosphatase-1b; PRB-1B; methionine aminopeptidase;
KM MetAR-2: human telomerase; hTERT; protein kinase C alpha; PK alpha;
KM beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
KM c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
KM hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inosine; G-cleaver
KM amberizyme; zinyne; DNAzyme; cancer; breast cancer; Alzheimer's disease;
KM diabetes; obesity; cardiac disease; heart disease; age-related disease;
KM hepatitis B infection; hepatocellular carcinoma; genetic drift; ss.

05 Hepatitis B virus.

PN WO200116312-A2

PD 08-MAR-2001.

PF 30-AUG-2000; 2000WO-US023998.

PR 31-AUG-1999; 99US-0151713P
PR 27-SEP-1999; 99US-00406643
PR 27-SEP-1999; 99US-0156236P
PR 27-SEP-1999; 99US-0156467P
PR 08-NOV-1999; 99US-00436430

PA (RIBO-) RIBOZYME PHARM INC.

PI Mcswiggen J, Usman N, Blatt L, Beigelman L, Burgin A;
PI Karpeisky A, Matulic-Adamic J, Svedler D, Draper K, Chowrira B;
PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;

PT Enzymatic nucleic acid molecules able to cleave separate RNA molecules
PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes
PT obesity and heart disease.

PS Example 6; Page 553; 717pp; English.

The present invention relates to the use of enzymatic nucleic acid molecules (e.g. ribozymes) to modulate gene expression. The invention also methods for their use to down regulate or inhibit the expression of genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C α (PKC α), beta-secretase (BACE), human epidermal growth factor receptor-2 (HER2/c-erbB2/neu), phospholamban (PLN), presenilin-1 (ps-1), presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic nucleic acid molecules used to inhibit the expression of the said genes include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme, zinczyme, and/or DNAzyme motifs. The methods of the invention are useful for treating cancer, in particular breast cancer, Alzheimer's disease, diabetes, obesity, cardiac diseases and e.g. heart disease, age-related diseases, hepatitis B infections, and hepatitis and hepatocellular carcinoma. The enzymatic nucleic acid molecules can also be used as diagnostic tools to examine genetic drift and mutations within diseased cells and to detect the presence of specific RNA in a cell. The present sequence represents a substrate for a DNAzyme used in the examples of the present invention. Note: Some SEQ ID Nos are repeated more than once in the specification, but these have different sequences associated with them.

SQ Sequence 17 BP; 4 A; 7 C; 3 G; 0 T; 3 U; 0 Other;

Query Match 0.88; Score 14.4; DB 1; Length 17;

Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

1527 CAUGGUTCUGGUAAC 1542

Db 16 CATGGTCTGGTGAAC 1

RESULT 717

ADV61734/C

ID ADV61734 standard; RNA; 17 BP.

AC ADV61734;

DT 10-FEB-2005 (first entry)

DE HBV amberzyme substrate sequence #305.

CC them.
 XX Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;
 SQ Query Match 0.8%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 4.4e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1501 AUCAUCAUCUGAGACC 1516
 |||||
 2 AUCAUCAUCUGAGACC 17

Db

RESULT 714
 ADV48881
 ID ADV48881 standard; RNA; 17 BP.
 XX
 AC ADV48881;
 XX
 DT 10-FEB-2005 (first entry)

DE HBV zinzyme ribozyme substrate sequence #322.
 XX
 XX Enzymatic nucleic acid molecule; gene expression; down regulation;
 KW protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
 KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KW c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
 KW hepatitis B virus; HBV; hammetthead; HH; hairpin; NCH; inozyme; G-cleaver;
 KW amberyzyme; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KW hepatitis B infection; hepatocellular carcinoma; genetic drift; ss.
 XX
 OS Hepatitis B virus.
 XX
 XX WO200116312-A2.
 XX
 XX 08-MAR-2001.
 PD
 XX 30-AUG-2000; 2000WO-US023998.
 PF
 XX 31-AUG-1999; 99US-0151713P.
 PR 27-SEP-1999; 99US-00406643.
 PR 27-SEP-1999; 99US-0156236P.
 PR 27-SEP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR 14-APR-2000; 2000US-0197769P.
 PR 23-MAY-2000; 2000US-00578223.
 PR 09-AUG-2000; 2000US-00636385.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA
 XX Mcswigen J, Usman N, Blatt L, Beigelman L, Burgin A,
 PI Karpelesky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B,
 PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
 XX
 XX WPI; 2001-244406/25.
 DR
 XX Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 XX
 PS Example 6; Page 546; 717pp; English.
 CC The present invention relates to the use of enzymatic nucleic acid
 CC molecules (e.g. ribozymes) to modulate gene expression. The invention
 CC also methods for their use to down regulate or inhibit the expression of

CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
 CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
 CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
 CC receptor-2 (HER2/c-erbB2/neu), phospholamban (PLN), presenilin-1 (ps-1),
 CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
 CC nucleic acid molecules used to inhibit the expression of the said genes
 CC include hammetthead (HH), hairpin, NCH (inozyme), G-cleaver, amberyzyme,
 CC zinzyme, and/or DNAzyme motifs. The methods of the invention are useful
 CC for treating cancer, in particular breast cancer, Alzheimer's disease,
 CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
 CC diseases, hepatitis B infections, and hepatitis and hepatocellular
 CC carcinoma. The enzymatic nucleic acid molecules can also be used as
 CC diagnostic tools to examine genetic drift and mutations within diseased
 CC cells and to detect the presence of specific RNA in a cell. The present
 CC sequence represents a substrate for a ribozyme used in the examples of
 CC the present invention. Note: Some SEQ ID Nos are repeated more than once
 CC in the specification, but these have different sequences associated with
 CC them.
 XX
 SQ Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;

CC
 CC Query Match 0.8%; Score 14.4; DB 1; Length 17;
 CC Best Local Similarity 93.8%; Pred. No. 4.4e+02;
 CC Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1501 AUCAUCAUCUGAGACC 1516
 |||||
 2 AUCAUCAUCUGAGACC 17

Db

RESULT 715
 ADV48759/C
 ID ADV48759 standard; RNA; 17 BP.
 XX
 AC ADV48759;
 XX
 DT 10-FEB-2005 (first entry)

DE HBV zinzyme ribozyme substrate sequence #268.
 XX
 XX Enzymatic nucleic acid molecule; gene expression; down regulation;
 KW protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
 KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KW c-erbB2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
 KW hepatitis B virus; HBV; hammetthead; HH; hairpin; NCH; inozyme; G-cleaver;
 KW amberyzyme; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KW hepatitis B infection; hepatocellular carcinoma; genetic drift; ss.
 XX
 OS Hepatitis B virus.
 XX
 XX WO200116312-A2.
 XX
 XX 08-MAR-2001.
 PD
 XX 30-AUG-2000; 2000WO-US023998.
 PF
 XX 31-AUG-1999; 99US-0151713P.
 PR 27-SEP-1999; 99US-00406643.
 PR 27-SEP-1999; 99US-0156236P.
 PR 27-SEP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR 14-APR-2000; 2000US-0197769P.
 PR 23-MAY-2000; 2000US-00578223.
 PR 09-AUG-2000; 2000US-00636385.
 XX

XX XX WO200116312-A2.
 XX XX 08-MAR-2001.
 XX PF 30-AUG-2000; 2000WO-US023998.
 XX 31-AUG-1999; 99US-0151713P.
 PR 27-SRP-1999; 99US-00406643.
 PR 27-SRP-1999; 99US-0156236P.
 PR 27-SRP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR 14-APR-2000; 2000US-0197769P.
 PR 23-MAY-2000; 2000US-00578223.
 PR 09-AUG-2000; 2000US-00636385.
 XX XX (RIBO-) RIBOZYME PHARM INC.
 XX XX Mcswiggen J, Usman N, Blatt L, Beigelman L, Burgin A;
 PI Karpeisky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B;
 PI Stinchcomb D, Beaudry A, Zimmen S, Ludwig J, Sproat BS;
 XX WPI; 2001-244406/25.
 XX Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 XX XX Example 6; Page 554; 717pp; English.
 XX The present invention relates to the use of enzymatic nucleic acid
 CC molecules (e.g. ribozymes) to modulate gene expression. The invention of
 CC also methods for their use to down regulate or inhibit the expression of
 CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
 CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
 CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
 CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
 CC nucleic acid molecules used to inhibit the expression of the said genes
 CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme,
 CC zinyyme, and/or DNAzyme motifs. The methods of the invention are useful
 CC for treating cancer, in particular breast cancer, Alzheimer's disease,
 CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
 CC diseases, hepatitis B infections, and hepatitis and hepatocellular
 CC carcinoma. The enzymatic nucleic acid molecules can also be used as
 CC diagnostic tools to examine genetic drift and mutations within diseased
 CC cells and to detect the presence of specific RNA in a cell. The present
 CC sequence represents a substrate for a DNAzyme used in the examples of the
 CC present invention. Note: Some SEQ ID Nos are repeated more than once in
 CC the specification, but these have different sequences associated with
 CC them.
 XX XX Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;
 SQ Query Match 0.8%; Score 14.4; DB 1; Length 17;
 Best Local Similarity 93.8%; Pred. No. 4.4e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

AC ADV61822;
 XX XX 10-FEB-2005 (first entry)
 XX DE HBV amberzyme ribozyme substrate sequence #359.
 XX XX Enzymatic nucleic acid molecule; gene expression; down regulation;
 KM protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
 KM MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
 KM beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
 KM c-erb2; neu; phospholamban; PLN; presenilin-1; ps-1; presenilin-2; ps-2;
 KM hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver;
 KM amberzyme; zinyyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
 KM diabetes; obesity; cardiac disease; heart disease; age-related disease;
 KM hepatitis B infection; hepatocellular carcinoma; genetic drift; ss.
 XX XX Hepatitis B virus.
 XX OS
 XX WO200116312-A2.
 XX XX 08-MAR-2001.
 PD 30-AUG-2000; 2000WO-US023998.
 XX PF 31-AUG-1999; 99US-0151713P.
 PR 27-SRP-1999; 99US-00406643.
 PR 27-SRP-1999; 99US-0156236P.
 PR 27-SRP-1999; 99US-0156467P.
 PR 08-NOV-1999; 99US-00436430.
 PR 06-DEC-1999; 99US-0169100P.
 PR 29-DEC-1999; 99US-00474432.
 PR 29-DEC-1999; 99US-0173612P.
 PR 30-DEC-1999; 99US-00476387.
 PR 04-FEB-2000; 2000US-00498824.
 PR 20-MAR-2000; 2000US-00531025.
 PR 14-APR-2000; 2000US-0197769P.
 PR 23-MAY-2000; 2000US-00578223.
 PR 09-AUG-2000; 2000US-00636385.
 XX XX (RIBO-) RIBOZYME PHARM INC.
 XX XX Mcswiggen J, Usman N, Blatt L, Beigelman L, Burgin A;
 PI Karpeisky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B;
 PI Stinchcomb D, Beaudry A, Zimmen S, Ludwig J, Sproat BS;
 XX WPI; 2001-244406/25.
 XX Enzymatic nucleic acid molecules able to cleave separate RNA molecules
 PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
 PT obesity and heart disease.
 XX XX Example 6; Page 573; 717pp; English.
 PS The present invention relates to the use of enzymatic nucleic acid
 CC molecules (e.g. ribozymes) to modulate gene expression. The invention of
 CC also methods for their use to down regulate or inhibit the expression of
 CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
 CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
 CC receptor-2 (HER2/c-erb2/neu), phospholamban (PLN), presenilin-1 (ps-1),
 CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
 CC nucleic acid molecules used to inhibit the expression of the said genes
 CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberzyme,
 CC zinyyme, and/or DNAzyme motifs. The methods of the invention are useful
 CC for treating cancer, in particular breast cancer, Alzheimer's disease,
 CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
 CC diseases, hepatitis B infections, and hepatitis and hepatocellular
 CC carcinoma. The enzymatic nucleic acid molecules can also be used as
 CC diagnostic tools to examine genetic drift and mutations within diseased
 CC cells and to detect the presence of specific RNA in a cell. The present
 CC sequence represents a substrate for a ribozyme used in the examples of
 CC the present invention. Note: Some SEQ ID Nos are repeated more than once
 CC in the specification, but these have different sequences associated with

CC gene cluster ORFs are useful for chemically modifying a molecule in a
CC host cell. The host cell is a bacterium or eukaryotic cell, including a
CC mammalian, yeast, plant, fungal, or insect cell. The molecule is an
CC endogenous metabolite produced by the host cell or exogenously supplied
CC metabolite, or an amino acid, and the polypeptide is a peptide synthetase
CC or amino transferase. The polypeptides encoded by the lmm gene cluster
CC are useful for converting an apo-carrier protein to a holo-carrier
CC protein. lmm shows potent antitumour activity in tumour models in vivo.
CC The lmm gene cluster modules and/or catalytic domains are useful for
CC making various peptide and/or polypeptide, and/or hybrid
CC polypeptide/polypeptide metabolites. The proteins encoded by the ORFs are
CC useful alone, or in combination with other active domains to modify
CC various target substrates. The lmm gene cluster is useful to upregulate
CC endogenous lmm production to permit lmm production in cells and/or to
CC make various modified lmm. lmm, its analogue, or other polypeptide,
CC peptide or hybrid polypeptide/peptide metabolites are useful as
CC therapeutic agents, to treat a number of disorders, depending upon the
CC type of metabolites. ABX34290-ABX34431 represent PCR primers used to
CC amplify individual ORFs of the S. atrocolivaceus leinamycin biosynthesis
CC gene cluster
XX
SQ Sequence 18 BP; 3 A; 8 C; 2 G; 5 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 4.4e+02;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
QY 1270 UUCUCCAGCUCUCCCAUC 1287
DB 1 TTGCCCAAGCTTCCCATC 18
:::|||||:::|||||
XX
RESULT 708
ADXS8092/C
ID ADXS8092 standard; DNA; 17 BP.
XX
AC ADXS8092;
XX
DT 21-APR-2005 (first entry)
XX
DE Primer Gamma 15 for single chain antibody heavy chain variable fragment.
XX
XX virucide; vaccine; single chain antibody; HSV; glycoprotein;
KW glycoprotein D; herpes simplex virus; HSV infection; RT-PCR; primer; ss;
KW heavy chain.
XX
OS Synthetic.
XX
PN WO2005011580-A2.
XX
PD 10-FEB-2005.
XX
PF 26-JUL-2004; 2004WO-US024013.
XX
PR 25-JUL-2003; 2003US-0489984P.
XX
PA (TEXA) UNIV TEXAS SYSTEM.
XX
PI Simmons A, Chen J;
XX
DR WPI; 2005-142827/15.
XX
PT New single chain antibody that specifically binds to a Herpes Simplex
PT virus (HSV) glycoprotein, useful in preparing a composition for
PT preventing or treating a HSV infection.
XX
XX Example 1; SEQ ID NO 30; 99pp; English.
XX
CC The specification describes a single chain antibody that specifically
CC binds to a herpes simplex virus (HSV) glycoprotein, e.g. glycoprotein D.
CC The single chain antibody of the invention is useful for preparing a
CC composition for preventing or treating a HSV infection. C region RT-PCR
CC primer ADXS8077 with gamma degenerate signal sequence RT-PCR primers

CC ADXS8078-ADXS8094 were used to amplify cDNA encoding single chain
CC antibody heavy chain variable fragments. The amplicons were used to
CC generate single chain antibodies of the invention.
XX
SQ Sequence 17 BP; 5 A; 4 C; 5 G; 1 T; 0 U; 2 Other;
XX
Query Match 0.8%; Score 14.6; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 4.2e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
QY 595 CUUGGACUCCUCCAU 611
DB 17 CTTGRCGWCCTCCAT 1
:::|||||:::|||||
XX
RESULT 709
AAT92041/C
ID AAT92041 standard; DNA; 18 BP.
XX
AC AAT92041;
XX
DT 15-JUN-1998 (first entry)
XX
DE Sense primer derived from tRNA-His for endogenous retroviruses.
XX
XX Human; genome; transfer RNA; tRNA; pseudogene; primer; retrovirus;
KW reverse transcriptase; detection; endogenous; animal; evolution;
KW breeding programme; forensic science; primer; PCR; amplification;
KW polymerase chain reaction; ss.
XX
OS Synthetic.
XX
PN WO9709452-A1.
XX
PD 13-MAR-1997.
XX
PF 06-SEP-1996; 96WO-GB002196.
XX
PR 06-SEP-1995; 95GB-00018154.
XX
PA (UYCA-) UNIV CAMBRIDGE TECH SERVICES LTD.
XX
PI Petrik J;
XX
DR WPI; 1997-192926/17.
XX
PT Detecting retroviral DNA using labelled oligo:nucleotide(s) - which bind
PT to the primer binding site of a retroviral genome, useful as sequence
PT tag.
XX
PS Claim 2; Page 27; 39pp; English.
XX
XX The human genome is thought to contain around 1300 transfer RNA (tRNA)
CC genes and pseudogenes encoding 60-90 tRNAs. Of these, 20 have been
CC sequenced and 11 tRNA sequences have been shown to act as primers for
CC synthesising the (-)-strand of retroviruses by reverse transcriptase.
CC Sequences AAT92025-48 are sense primers identical to primer binding site
CC (PBS) sequences found in retroviral sequences, which are complementary to
CC the last 18 nucleotides of tRNA gene sequences. This sequence is derived
CC from known exogenous or endogenous retroviral sequences. They may also be
CC used to detect novel retroviruses or endogenous retroviral sequences
CC found in the human genomes. Endogenous retroviral sequences may serve as
CC useful tags in animal evolutionary studies and breeding programmes and,
CC potentially, in forensic sciences
XX
SQ Sequence 18 BP; 2 A; 3 C; 6 G; 5 T; 0 U; 2 Other;
XX
Query Match 0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 4.6e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1113 UCCGGGUCACAGCACCA 1129

XX 02-JUN-2000.
 PD 05-OCT-1999; 99WO-US023196.
 PF 20-NOV-1998; 98US-00197380.
 PR (ISIS-) ISIS PHARM INC.
 PA Monia BP, Cowsett LM;
 PI WPI; 2000-400023/34.
 DR An antisense compound which inhibits expression of human MEK1, useful for
 PT treating cancer.
 PS Claim 3; Page 76; 101pp; English.
 CC MEK1 is part of the MAPK/ERK subgroup of the MAP kinases. It is thought
 CC that MEK1 is responsible for the proliferative or mitogenic response of
 CC tissues. Antisense oligonucleotides targeted to MEK1 may be used to
 CC inhibit expression of the gene. MEK1 inhibition may be useful for the
 CC treatment of conditions associated with the expression of MEK1, for
 CC example a hyperproliferative condition such as cancer. The present
 CC sequence is antisense oligonucleotide ISIS# 25011 that was targeted to
 CC the coding region of MEK1 mRNA
 XX
 SQ Sequence 18 BP; 6 A; 9 C; 1 G; 2 T; 0 U; 0 Other;
 Query Match 0.8%; Score 15; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 4.2e+02;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 40 CCAACATCAGCTCC 54
 DB 4 CCAACATCAGCTCC 18
 RESULT 706
 AAZ57686/C
 ID AAZ57686 standard; DNA; 18 BP.
 XX
 AC AAZ57686;
 XX
 DT 05-APR-2000 (first entry)
 XX
 DE Human G-alpha-12 antisense inhibitor ISIS# 20675.
 XX
 KW G-alpha-12 inhibitor; antisense compound; cell differentiation; cancer;
 KW cell growth; metastatic growth; ss; ISIS# 20675.
 XX
 OS Homo sapiens.
 XX
 PN US5998206-A.
 XX
 PD 07-DEC-1999.
 XX
 PF 23-FEB-1999; 99US-00256496.
 XX
 PR 23-FEB-1999; 99US-00256496.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Cowsett LM;
 XX
 DR WPI; 2000-095920/08.
 XX
 CC Antisense inhibition of human G-alpha-12 expression.
 PT
 XX Example 15; Col 38; 36pp; English.
 PS
 CC This is a human G-alpha-12 antisense nucleotide sequence. G-alpha-12 is a
 CC member of the G12/13 subfamily of G-proteins. The primary function of G-

CC alpha-12 is in cell differentiation and growth. The invention relates to
 CC antisense compounds which are 8-30 nucleotides long (see AAZ57686-
 CC 257746). The antisense molecules are targeted to the human G-alpha-12
 CC nucleic acid molecule, and inhibit the expression of G-alpha-12. The
 CC molecules preferably have a modified internucleotide linkage, and at
 CC least one modified sugar moiety. The compounds target different regions
 CC of the human G-alpha-12 RNA. The expression of human G-alpha 12 is
 CC inhibited by contacting human cells or tissues in vitro with the
 CC antisense molecules. The oligonucleotides are used in modulating the
 CC function of nucleic acid molecules encoding G-alpha-12, ultimately
 CC modulating the amount of G-alpha-12 produced. The antisense compounds can
 CC be utilized for diagnostics, therapeutics, prophylaxis and as research
 CC agents and kits. They may be useful in the treatment of cancer, and
 CC metastatic growth
 XX
 SQ Sequence 18 BP; 5 A; 1 C; 7 G; 5 T; 0 U; 0 Other;
 Query Match 0.8%; Score 14.8; DB 1; Length 18;
 Best Local Similarity 66.7%; Pred. No. 4.4e+02;
 Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 QY 246 CAUCAUCCGCAACUCCU 263
 DB 18 CACTTCGACACATCCT 1
 RESULT 707
 ABX34294
 ID ABX34294 standard; DNA; 18 BP.
 XX
 AC ABX34294;
 XX
 DT 11-FEB-2003 (first entry)
 XX
 DE PCR primer #1 for S. atroolivaceus leinamycin gene cluster ORF-33.
 XX
 KW leinamycin biosynthesis gene cluster; lmm; open reading frame; ORF;
 KW anti-tumour antibiotic; broad spectrum antimicrobial activity;
 KW Gram-positive; Gram-negative bacteria; chemical modification; metabolite;
 KW apo-carrier protein; holo-carrier protein; tumour; polyketide;
 KW hybrid polypeptide/polyketide metabolite; lmm production; cytosstatic;
 KW PCR; primer; ss.
 XX
 OS Streptomyces atroolivaceus.
 XX
 PN WO200277179-A2.
 XX
 PD 03-OCT-2002.
 XX
 PF 22-MAR-2002; 2002WO-US008937.
 XX
 PR 26-MAR-2001; 2001US-0278935P.
 XX
 PA (REGC) UNIV CALIFORNIA.
 PA (KYOW) KYOWA HAKKO KOGYO KK.
 XX
 PI Shen B, Cheng Y, Tang G;
 XX
 DR WPI; 2003-018907/01.
 XX
 CC Novel gene cluster responsible for synthesis of leinamycin in
 CC Streptomyces atroolivaceus useful for making various peptide and/or
 CC polyketide, and/or hybrid polypeptide/polyketide metabolites.
 PT
 PS Claim 1; Page 26; 185pp; English.
 XX
 CC The present invention relates to the isolation of the Streptomyces
 CC atroolivaceus leinamycin (lmm) biosynthesis gene cluster containing 71
 CC open reading frames (ORFs) (ORFs -35 through -1, ORFs lmmA through lmmZ,
 CC and ORFs +1 through +9). leinamycin is a novel anti-tumour antibiotic
 CC produced by several Streptomyces species. It exhibits broad spectrum
 CC antimicrobial activity against Gram-positive and Gram-negative bacteria,
 CC but not against fungi. The polypeptides encoded by the lmm biosynthesis

KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
KM single nucleotide polymorphism; forensic application; gene therapy;
KM Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
KM sudden infant death syndrome; genotyping; haplotyping; ASO;
KM chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN WO200129176-A2.
XX
PD 26-APR-2001.
XX
PF 12-OCT-2000; 2000WO-US028247.
XX
PR 15-OCT-1999; 99US-0159860P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
XX WPI; 2001-300326/31.
XX
PT Novel polymorphic variant of reference sequence for human cholinergic
PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
PT purposes.
XX
PS Claim 15; Page 19; 54pp; English.
XX
CC The patent relates to polymorphic variants of human cholinergic receptor,
CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
CC single nucleotide polymorphism selected from cytosine at P81, adenine at
CC P82 or P83, and cytosine at P84. The invention also relates to a method
CC for genotyping and haplotyping the CHRM3 gene for identification of
CC variants. The polymorphic variant is useful for therapeutic purposes, for
CC studying the expression and biological function of CHRM3, as well as for
CC developing drugs targeting the CHRM3 protein. The variant is also useful
CC in diagnostics and forensic applications. The recombinant nonhuman
CC organism transfected with the polymorphic variant is useful for studying
CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
CC syndrome, disorders associated with smooth muscle contractility and
CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
CC screening assays and its antibodies are useful in immunoassays to detect
CC CHRM3 protein variants in biological samples. The present sequence is an
CC allele-specific oligonucleotide (ASO) primer used for detecting human
CC CHRM3 gene polymorphism
XX
SQ Sequence 15 BP; 3 A; 3 C; 6 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 15; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 2.9e+02;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
OY 180 GGGAGGUCUACCGU 194
Db |||||:|||||:
1 GGGAGCTGCTACCGT 15
XX
RESULT 704
AAA24961/C
ID AAA24961 standard; DNA; 17 BP.
XX
AC AAA24961;
XX
DT 19-JUL-2000 (first entry)
XX
DE Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:1459.
XX
KM Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;
KM hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;
KM gene expression modification; cancer; phosphorothioate; endonuclease;
KM anticancer; breast cancer; endometrium cancer; ss.
KW

XX
OS Homo sapiens.
XX
PN WO9954459-A2.
XX
PD 28-OCT-1999.
XX
PF 19-APR-1999; 99WO-US008547.
XX
PR 20-APR-1998; 98US-0082404P.
XX
PR 23-JUN-1998; 98US-00103636.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A, Bellon L;
PI Reynolds M, Zwick M, Jarvis T, Woolf T, Haeblerl P;
PI Matulic-Adamic J;
XX
DR WPI; 2000-013248/01.
XX
PT New nucleic acids that interact, and optionally cleave, target sequences,
PT used to treat cancer.
XX
PS Claim 77; Page 64; 148pp; English.
XX
CC The present invention describes nucleic acids (A) that interact stably
CC with a target sequence and contain at least one phosphoro(di)thioate
CC link, having endonuclease activity. (A), and more generally any catalytic
CC nucleic acid (A') that modulates expression of the oestrogen receptor
CC gene, are used to treat cancer (particularly of breast or endometrium),
CC in vivo or by transforming cells ex vivo and implanting treated cells, or
CC for other conditions associated with levels of oestrogen receptor.
CC Because of the high selectivity for targeted RNA, (A) can also be used to
CC correlate inhibition of gene expression with alterations in phenotype,
CC particularly for identification of therapeutic targets, and as research
CC reagents (for RNA, in the same way that restriction endonucleases are
CC used with DNA). The combination of modifications in (A) improves
CC resistance to nucleases, binding affinity and/or activity. AAA23503 to
CC AAA24748 to AAA25992 represent oestrogen receptor hammerhead ribozyme sequences, and
CC AAA24748 to AAA25992 represent their corresponding target sequences.
CC AAA25993 to AAA26105 represent oestrogen receptor hairpin ribozyme
CC sequences, and AAA26107 to AAA26218 represent their corresponding target
CC sequences. AAA26219 to AAA26271 represent other ribozyme sequences and
CC antisense oligonucleotides used in the exemplification of the present
CC invention
XX
SQ Sequence 17 BP; 2 A; 9 C; 2 G; 4 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 15; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 3.7e+02;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY 1176 UGAGGAGAGACUGGG 1190
Db :|||||:|||||:
16 TGAGGAGAGACTGCG 2
XX
RESULT 705
AAA27262
ID AAA27262 standard; DNA; 18 BP.
XX
AC AAA27262;
XX
DT 20-SEP-2000 (first entry)
XX
DE Human MEK1 antisense oligonucleotide ISIS# 25011.
XX
KM Human; MEK1; MAPK/ERK; MEK1a; MAPK; MKK1a; MAP kinase; cancer;
KM proliferative; mitogenic; antisense; oligonucleotide; ss.
XX
OS Homo sapiens.
XX
PN WO200031106-A1.
KW

ID AAD05865 standard; DNA; 15 BP.
 AC AAD05865;
 DT 31-JUL-2001 (first entry)
 DE Human cholinergic receptor, muscarinic 3 gene ASO primer #9.
 XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
 XX single nucleotide polymorphism; forensic application; gene therapy;
 XX Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
 XX sudden infant death syndrome; genotyping; haplotyping; ASO;
 XX chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.
 OS Homo sapiens.
 XX WO200129176-A2.
 XX 26-APR-2001.
 XX 12-OCT-2000; 2000WO-US028247.
 XX 15-OCT-1999; 99US-0159860P.
 XX (GENA-) GENAISSANCE PHARM INC.
 XX Choi JY, Denton RR, Nandabalan K, Stephens JC;
 XX WPI; 2001-300326/31.
 XX Novel polymorphic variant of reference sequence for human cholinergic
 PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
 PT purposes.
 PS Claim 15; Page 19; 54p; English.
 XX The patent relates to polymorphic variants of human cholinergic receptor,
 CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
 CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
 CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
 CC for genotyping and haplotyping the CHRM3 gene for identification of
 CC variants. The polymorphic variant is useful for therapeutic purposes, for
 CC studying the expression and biological function of CHRM3, as well as for
 CC developing drugs targeting the CHRM3 protein. The variant is also useful
 CC in diagnostics and forensic applications. The recombinant nonhuman
 CC organism transfected with the polymorphic variant is useful for studying
 CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
 CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
 CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
 CC syndrome, disorders associated with smooth muscle contractility and
 CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
 CC screening assays and its antibodies are useful in immunoassays to detect
 CC CHRM3 protein variants in biological samples. The present sequence is an
 CC allele-specific oligonucleotide (ASO) primer used for detecting human
 CC CHRM3 gene polymorphism
 XX
 SQ Sequence 15 BP; 3 A; 3 C; 7 G; 2 T; 0 U; 0 Other;
 QY Query Match 0.8%; Score 15; DB 1; Length 15;
 DB Best Local Similarity 86.7%; Pred. No. 2.9e+02;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 1173 GCTUGAGAGAGACU 1187
 DB 1 GCCTGAGAGAGACT 15
 RESULT 702
 ID AAD05862/C
 XX AAD05862 standard; DNA; 15 BP.
 AC AAD05862;
 XX

DT 31-JUL-2001 (first entry)
 XX Human cholinergic receptor, muscarinic 3 gene ASO primer #6.
 DE Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
 XX single nucleotide polymorphism; forensic application; gene therapy;
 XX Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
 XX sudden infant death syndrome; genotyping; haplotyping; ASO;
 XX chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.
 OS Homo sapiens.
 XX WO200129176-A2.
 XX 26-APR-2001.
 XX 12-OCT-2000; 2000WO-US028247.
 XX 15-OCT-1999; 99US-0159860P.
 XX (GENA-) GENAISSANCE PHARM INC.
 XX Choi JY, Denton RR, Nandabalan K, Stephens JC;
 XX WPI; 2001-300326/31.
 XX Novel polymorphic variant of reference sequence for human cholinergic
 PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
 PT purposes.
 PS Claim 15; Page 19; 54p; English.
 XX The patent relates to polymorphic variants of human cholinergic receptor,
 CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
 CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
 CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
 CC for genotyping and haplotyping the CHRM3 gene for identification of
 CC variants. The polymorphic variant is useful for therapeutic purposes, for
 CC studying the expression and biological function of CHRM3, as well as for
 CC developing drugs targeting the CHRM3 protein. The variant is also useful
 CC in diagnostics and forensic applications. The recombinant nonhuman
 CC organism transfected with the polymorphic variant is useful for studying
 CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
 CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
 CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
 CC syndrome, disorders associated with smooth muscle contractility and
 CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
 CC screening assays and its antibodies are useful in immunoassays to detect
 CC CHRM3 protein variants in biological samples. The present sequence is an
 CC allele-specific oligonucleotide (ASO) primer used for detecting human
 CC CHRM3 gene polymorphism
 XX
 SQ Sequence 15 BP; 4 A; 6 C; 3 G; 2 T; 0 U; 0 Other;
 QY Query Match 0.8%; Score 15; DB 1; Length 15;
 DB Best Local Similarity 73.3%; Pred. No. 2.9e+02;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 192 CGCTGCGCAAGGCGU 206
 DB 15 CGCTGCGCAAGTGT 1
 RESULT 703
 ID AAD05861
 XX AAD05861 standard; DNA; 15 BP.
 AC AAD05861;
 XX 31-JUL-2001 (first entry)
 DT Human cholinergic receptor, muscarinic 3 gene ASO primer #5.
 XX

QY 1179 GGAGGAGCGGAGAU 1193
 |||||:|||||:
 DB 1 GGAGGAGCTGGGAT 15

RESULT 699
 AAD05866/c
 ID AAD05866 standard; DNA; 15 BP.

AC AAD05866;
 DT 31-JUL-2001 (first entry)

DE Human cholinergic receptor, muscarinic 3 gene ASO primer #10.

XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
 KW single nucleotide polymorphism; forensic application; gene therapy;
 KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
 KW sudden infant death syndrome; genotyping; haplotyping; ASO;
 KW chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.

OS Homo sapiens.

PN WO200129176-A2.

PD 26-APR-2001.

PF 12-OCT-2000; 2000WO-US028247.

PR 15-OCT-1999; 99US-0159860P.

PA (GENA-) GENAISSANCE PHARM INC.

PI Choi JY, Denton RR, Nandabalan K, Stephens JC;

DR WPI; 2001-300326/31.

PT Novel polymorphic variant of reference sequence for human cholinergic
 receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
 purposes.

PS Claim 15; Page 19; 54pp; English.

CC The patent relates to polymorphic variants of human cholinergic receptor,
 muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
 single nucleotide polymorphism selected from cytosine at PS1, adenine at
 PS2 or PS3, and cytosine at PS4. The invention also relates to a method
 for genotyping and haplotyping the CHRM3 gene for identification of
 variants. The polymorphic variant is useful for therapeutic purposes, for
 studying the expression and biological function of CHRM3, as well as for
 developing drugs targeting the CHRM3 protein. The variant is also useful
 in diagnostics and forensic applications. The recombinant nonhuman
 organism transfected with the polymorphic variant is useful for studying
 expression of CHRM3 isogenes in vivo, for in vivo screening and testing
 of drugs targeted against CHRM3 protein, and for testing the efficacy of
 therapeutic agents and compounds for Alzheimer's disease, Sjogren's
 syndrome, disorders associated with smooth muscle contractility and
 sudden infant death syndrome. The CHRM3 protein variant is useful in drug
 screening assays and its antibodies are useful in immunoassays to detect
 CHRM3 protein variants in biological samples. The present sequence is an
 allele-specific oligonucleotide (ASO) primer used for detecting human
 CHRM3 gene polymorphism

XX Sequence 15 BP; 3 A; 9 C; 1 G; 2 T; 0 U; 0 Other;

QY Query Match 0.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 2.9e+02;
 Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

DB 1185 GCGGCGGAGUGUGA 1199
 |||||:|||||:
 15 GCTGGGAGTGTGGA 1

RESULT 700
 AAD05869
 ID AAD05869 standard; DNA; 15 BP.

AC AAD05869;

DT 31-JUL-2001 (first entry)

DE Human cholinergic receptor, muscarinic 3 gene ASO primer #13.

XX Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
 KW single nucleotide polymorphism; forensic application; gene therapy;
 KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
 KW sudden infant death syndrome; genotyping; haplotyping; ASO;
 KW chromosome 1q41-q44; allele-specific oligonucleotide; PCR primer; ss.

OS Homo sapiens.

PN WO200129176-A2.

PD 26-APR-2001.

PF 12-OCT-2000; 2000WO-US028247.

PR 15-OCT-1999; 99US-0159860P.

PA (GENA-) GENAISSANCE PHARM INC.

PI Choi JY, Denton RR, Nandabalan K, Stephens JC;

DR WPI; 2001-300326/31.

PT Novel polymorphic variant of reference sequence for human cholinergic
 receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
 purposes.

PS Claim 15; Page 19; 54pp; English.

CC The patent relates to polymorphic variants of human cholinergic receptor,
 muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
 single nucleotide polymorphism selected from cytosine at PS1, adenine at
 PS2 or PS3, and cytosine at PS4. The invention also relates to a method
 for genotyping and haplotyping the CHRM3 gene for identification of
 variants. The polymorphic variant is useful for therapeutic purposes, for
 studying the expression and biological function of CHRM3, as well as for
 developing drugs targeting the CHRM3 protein. The variant is also useful
 in diagnostics and forensic applications. The recombinant nonhuman
 organism transfected with the polymorphic variant is useful for studying
 expression of CHRM3 isogenes in vivo, for in vivo screening and testing
 of drugs targeted against CHRM3 protein, and for testing the efficacy of
 therapeutic agents and compounds for Alzheimer's disease, Sjogren's
 syndrome, disorders associated with smooth muscle contractility and
 sudden infant death syndrome. The CHRM3 protein variant is useful in drug
 screening assays and its antibodies are useful in immunoassays to detect
 CHRM3 protein variants in biological samples. The present sequence is an
 allele-specific oligonucleotide (ASO) primer used for detecting human
 CHRM3 gene polymorphism

XX Sequence 15 BP; 3 A; 7 C; 1 G; 4 T; 0 U; 0 Other;

QY Query Match 0.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 73.3%; Pred. No. 2.9e+02;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

DB 1279 CUUCCAUCCAGCUA 1293
 |||||:|||||:
 1 CTTCCATCCAGCTA 15

RESULT 701
 AAD05865

CC allele-specific oligonucleotide (ASO) probe used for detecting human
 CC CHRM3 gene polymorphism
 XX
 SQ Sequence 15 BP; 3 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 0.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 73.3%; Pred. No. 2.9e+02;
 Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 186 UCAUACCGUCUGCA 200
 :|||:|||||:
 Db 1 TCATACCGTCTGCA 15
 RESULT 697
 AAD05855 standard; DNA; 15 BP.
 XX
 AC AAD05855;
 XX
 DT 31-JUL-2001 (first entry)
 XX
 DE Human cholinergic receptor, muscarinic 3 gene ASO probe #7.
 XX
 KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
 KW single nucleotide polymorphism; forensic application; gene therapy;
 KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
 KW sudden infant death syndrome; genotyping; haplotyping;
 KW chromosome 1q41-q44; ASO; allele-specific oligonucleotide; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200129176-A2.
 XX
 PD 26-APR-2001.
 XX
 PF 12-OCT-2000; 2000WO-US028247.
 XX
 PR 15-OCT-1999; 99US-0159860P.
 XX
 PA (GENA-) GENNAISSANCE PHARM INC.
 XX
 PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
 XX
 DR WPI; 2001-300326/31.
 XX
 PT Novel polymorphic variant of reference sequence for human cholinergic
 XX
 PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
 XX
 PT purposes.
 XX
 XS Claim 15; Page 19; 54pp; English.
 XX
 PS The patent relates to polymorphic variants of human cholinergic receptor,
 CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
 CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
 CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
 CC for genotyping and haplotyping the CHRM3 gene for identification of
 CC variants. The polymorphic variant is useful for therapeutic purposes, for
 CC studying the expression and biological function of CHRM3, as well as for
 CC developing drugs targeting the CHRM3 protein. The variant is also useful
 CC in diagnostics and forensic applications. The recombinant nonhuman
 CC organism transfected with the polymorphic variant is useful for studying
 CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
 CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
 CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
 CC syndrome, disorders associated with smooth muscle contractility and
 CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
 CC screening assays and its antibodies are useful in immunoassays to detect
 CC CHRM3 protein variants in biological samples. The present sequence is an
 CC allele-specific oligonucleotide (ASO) probe used for detecting human
 CC CHRM3 gene polymorphism
 XX
 SQ Sequence 15 BP; 5 A; 4 C; 3 G; 3 T; 0 U; 0 Other;

.Query Match 0.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 80.0%; Pred. No. 2.9e+02;
 Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 1285 AUCACGCTAGAGCA 1299
 :|||:|||||:
 Db 1 ATCCAGCTAGATCA 15
 RESULT 698
 AAD05853 standard; DNA; 15 BP.
 XX
 AC AAD05853;
 XX
 DT 31-JUL-2001 (first entry)
 XX
 DE Human cholinergic receptor, muscarinic 3 gene ASO probe #5.
 XX
 KW Human; cholinergic receptor muscarinic 3; CHRM3; drug screening;
 KW single nucleotide polymorphism; forensic application; gene therapy;
 KW Alzheimer's disease; Sjogren's syndrome; smooth muscle contractility;
 KW sudden infant death syndrome; genotyping; haplotyping;
 KW chromosome 1q41-q44; ASO; allele-specific oligonucleotide; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200129176-A2.
 XX
 PD 26-APR-2001.
 XX
 PF 12-OCT-2000; 2000WO-US028247.
 XX
 PR 15-OCT-1999; 99US-0159860P.
 XX
 PA (GENA-) GENNAISSANCE PHARM INC.
 XX
 PI Choi JY, Denton RR, Nandabalan K, Stephens JC;
 XX
 DR WPI; 2001-300326/31.
 XX
 PT Novel polymorphic variant of reference sequence for human cholinergic
 XX
 PT receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
 XX
 PT purposes.
 XX
 XS Claim 15; Page 19; 54pp; English.
 XX
 PS The patent relates to polymorphic variants of human cholinergic receptor,
 CC muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one
 CC single nucleotide polymorphism selected from cytosine at PS1, adenine at
 CC PS2 or PS3, and cytosine at PS4. The invention also relates to a method
 CC for genotyping and haplotyping the CHRM3 gene for identification of
 CC variants. The polymorphic variant is useful for therapeutic purposes, for
 CC studying the expression and biological function of CHRM3, as well as for
 CC developing drugs targeting the CHRM3 protein. The variant is also useful
 CC in diagnostics and forensic applications. The recombinant nonhuman
 CC organism transfected with the polymorphic variant is useful for studying
 CC expression of CHRM3 isogenes in vivo, for in vivo screening and testing
 CC of drugs targeted against CHRM3 protein, and for testing the efficacy of
 CC therapeutic agents and compounds for Alzheimer's disease, Sjogren's
 CC syndrome, disorders associated with smooth muscle contractility and
 CC sudden infant death syndrome. The CHRM3 protein variant is useful in drug
 CC screening assays and its antibodies are useful in immunoassays to detect
 CC CHRM3 protein variants in biological samples. The present sequence is an
 CC allele-specific oligonucleotide (ASO) probe used for detecting human
 CC CHRM3 gene polymorphism
 XX
 SQ Sequence 15 BP; 3 A; 1 C; 9 G; 2 T; 0 U; 0 Other;
 Query Match 0.8%; Score 15; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 2.9e+02;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

XX 21-APR-1999; 99WO-IB000822.
 XX 21-APR-1998; 98US-0082614P.
 XX 23-NOV-1998; 98US-0109732P.
 XX (GENSET) GENSET.
 XX Cohen D, Blumenfeld M, Chumakov I;
 XX WPI; 2000-013267/01.
 XX Novel biallelic markers used to construct a high density disequilibrium
 XX map of the human genome.
 XX Claim 9; Page 1709; 2745pp; English.
 XX AAZ6564 to AAZ69578 represent human biallelic markers from the present
 XX invention, which contain a polymorphic base at position 24 of their
 XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
 XX primers for the biallelic markers. The biallelic markers of the invention
 XX have a variety of uses: they can be used for high density mapping of the
 XX human genome, and in complex association studies and haplotyping studies
 XX which are useful in determining the genetic basis for disease states.
 XX Compositions and methods of the invention can also be useful for the
 XX identification of the targets for the development of pharmaceutical
 XX agents and diagnostic methods, as well as the characterisation of the
 XX differential efficacious responses to and side effects from
 XX pharmaceutical agents acting on a disease as well as other treatment.
 XX N.B. The SEQ ID Nos 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
 XX 3367, are not actually given a sequence in the Sequence Listing from the
 XX present invention
 XX SQ Sequence 19 BP; 6 A; 8 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.4; DB 1; Length 19;
 Best Local Similarity 70.6%; Pred. No. 4, 2e+02;
 Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 38 UGCCAACAUCAGCUC 54
 Db 3 TTCCAACATCACTCC 19

RESULT 693

AAZ73102
 ID AAZ73102 standard; DNA; 19 BP.

AC AAZ73102;

DT 10-SEP-2001 (first entry)

DE Human biallelic marker upstream amplification primer SEQ ID NO:7458.

XX Human genome; biallelic marker; high density disequilibrium map;
 XX genomic map; haplotype; phenotype; polymorphic base; genotyping;
 XX haplotyping; hybridisation; identification; characterisation;
 XX amplification; single nucleotide polymorphism; SNP; PCR primer;
 XX diagnosis; ss.
 XX OS Homo sapiens.
 XX WO9954500-A2.
 XX PN WO9954500-A2.
 XX PD 28-OCT-1999.
 XX PF 21-APR-1999; 99WO-IB000822.
 XX PR 21-APR-1998; 98US-0082614P.
 XX PR 23-NOV-1998; 98US-0109732P.
 XX PA (GENSET) GENSET.
 XX CC

PI Cohen D, Blumenfeld M, Chumakov I;
 XX WPI; 2000-013267/01.
 XX Novel biallelic markers used to construct a high density disequilibrium
 XX map of the human genome.
 XX Claim 9; Page 1821; 2745pp; English.
 XX AAZ6564 to AAZ69578 represent human biallelic markers from the present
 XX invention, which contain a polymorphic base at position 24 of their
 XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
 XX primers for the biallelic markers. The biallelic markers of the invention
 XX have a variety of uses: they can be used for high density mapping of the
 XX human genome, and in complex association studies and haplotyping studies
 XX which are useful in determining the genetic basis for disease states.
 XX Compositions and methods of the invention can also be useful for the
 XX identification of the targets for the development of pharmaceutical
 XX agents and diagnostic methods, as well as the characterisation of the
 XX differential efficacious responses to and side effects from
 XX pharmaceutical agents acting on a disease as well as other treatment.
 XX N.B. The SEQ ID Nos 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
 XX 3367, are not actually given a sequence in the Sequence Listing from the
 XX present invention
 XX SQ Sequence 19 BP; 3 A; 7 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.4; DB 1; Length 19;
 Best Local Similarity 58.8%; Pred. No. 4, 2e+02;
 Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 684 GCCCACCACUACUUG 700
 Db 1 GCCCACCCTTACTTTG 17

RESULT 694

ADP79744/C
 ID ADP79744 standard; DNA; 19 BP.

AC ADP79744;

DT 04-NOV-2004 (first entry)

DE Hepatitis B virus core promoter region oligonucleotide SEQ ID NO:5.

XX drug resistance; hepatitis B virus; HBV; mutation; detection;
 XX core promoter region; HBV genotype; antiinflammatory; hepatotropic;
 XX virucide; gene; ds.
 XX OS Hepatitis B virus.
 XX WO2004053162-A1.
 XX PN WO2004053162-A1.
 XX PD 24-JUN-2004.
 XX PF 10-DEC-2003; 2003WO-JP015810.
 XX PR 11-DEC-2002; 2002JP-00359372.
 XX PA (ADLI-) ADVANCED LIFE SCI INST INC.
 XX PI Rokuhara A, Matsumoto A, Tanaka E, Kiyosawa K;
 XX WPI; 2004-517253/49.
 XX PF Identifying drug resistance (especially to lamivudine) in hepatitis B
 XX virus, comprises detecting a mutation in the core promoter region of
 XX hepatitis B virus.
 XX PS Claim 5; SEQ ID NO 5; 40pp; Japanese.
 XX CC The present invention describes a method (M1) for identifying drug

AE016015
ID AED16015 standard; DNA; 18 BP.
XX AED16015;
AC
DE 15-DEC-2005 (first entry)
XX
XX Probe for blood cell antigen HPA3-allele a, HPA-3aa CR.
DE
XX
XX Probe; ss; blood; DNA typing; blood transfusion; blood group;
KM SNP detection; DNA microarray.
XX
XX Homo sapiens.
OS
XX WO2005095650-A1.
PN
XX 13-OCT-2005.
PD
XX 31-MAR-2005; 2005WO-NL000236.
PF
XX 01-APR-2004; 2004EP-00076046.
PR
XX (SANO-) STICHTING SANGUIN BLOEDVOORZIENING.
PA
XX Belboer SHW, Wieringa-Jelma H, Den Dunnen JT, De Haas M;
PI WPI; 2005-725532/74.
DR
XX Genotyping blood cell antigens, by amplifying and detectably labeling DNA
XX by multiplex PCR at region of locus of blood cell antigen containing
PT nucleotide polymorphism, determining genotype for blood cell antigens
PS using chimeric primers.
XX
PS Claim 13; SEQ ID NO 88; 80bp; English.
XX
XX The invention relates to genotyping (M1) blood cell antigens, comprising
CC subjecting DNA from the individual to a multiplex PCR to amplify (and
CC detectably label) a region of the locus of different blood cell antigens
CC containing the site of a nucleotide polymorphism (arranged in an array)
CC and using the amplified and labeled DNA fragments to determine the
CC genotype for each of the blood cell antigens, using a pair of blood cell
CC antigen-specific chimeric primers and a detectably labeled universal
CC primer. Also included are a kit (I) for genotyping blood cell antigens by
CC (M1) (comprising a pair of blood cell antigen-specific chimeric primers
CC for each blood cell antigen to be genotyped and a detectably labeled
CC universal primer, preferably a pair of detectably labeled universal
CC primers), a set of blood cell antigen-specific chimeric primer pairs
CC useful in a multiplex PCR (comprising at least two, preferably
CC substantially all of chimeric primers) and a set of blood cell antigen
CC allele-specific oligonucleotide probes useful for genotyping blood cell
CC antigens. (M1) enables genotyping of large number of blood cell antigens
CC and is a practical, rapid and reliable method for analyzing the
CC hybridization results to assign the clinically relevant blood cell
CC antigen genotypes. The present sequence is a blood group antigen specific
CC probe useful in the method of the invention.
XX
SQ Sequence 18 BP; 2 A; 1 C; 13 G; 2 T; 0 U; 0 Other;
XX
Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 3.8e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1179 GGAGGAGCTGGGAGTGG 1195
DB 2 GGAGGAGCTGGGAGTGG 18
XX
RESULT 691
AED88402/C
ID AED88402 standard; DNA; 18 BP.
XX
AC AED88402;
XX

DT 26-JAN-2006 (first entry)
XX
XX Human Leukocyte Antigen B allele identification probe, SEQ ID 285.
DE
XX HLA; Leukocyte; Antigen; transplant rejection; histocompatibility;
KM preclinical testing; cancer; cytostatic; diabetes mellitus; antidiabetic;
XX probe; ss.
XX
XX Homo sapiens.
OS
XX JP2005185172-A.
PN
XX 14-JUL-2005.
PD
XX 25-DEC-2003; 2003JP-00430554.
PF
XX 25-DEC-2003; 2003JP-00430554.
PR
XX (CANO) CANON KK.
PA
XX Tsukada M;
PI WPI; 2006-013379/02.
DR
XX
XX Probe set for specific identification of an HLA-B allele in a sample,
PT useful e.g. in matching transplant donors and recipients, and in
PT determining suitable treatment for patients with conditions such as
PT cancer and diabetes mellitus.
XX
PS Claim 2; SEQ ID NO 285; 152bp; Japanese.
XX
XX The invention relates to a novel probe set for the identification of a
CC Human Leukocyte Antigen (HLA)-B allele in a sample. The invention further
CC includes a method for identifying an HLA-B allele using the probe set.
CC The probe set and method are useful for identifying an HLA-B allele in a
CC sample. The information gained is useful, for example, in matching organ
CC donors and recipients, and in guiding clinical decisions in the treatment
CC of diseases such as cancer and diabetes mellitus. This oligo sequence
CC represents a probe used in the identification of a Human Leukocyte
CC Antigen B allele of the invention.
XX
SQ Sequence 18 BP; 4 A; 10 C; 1 G; 3 T; 0 U; 0 Other;
XX
Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 3.8e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1185 GCUGGAGUGUGGACU 1201
DB 18 GATGGGAGTGGTGGACT 2
XX
RESULT 692
AAZ72578
ID AAZ72578 standard; DNA; 19 BP.
XX
AC AAZ72578;
XX
XX 10-SEP-2001 (first entry)
DT
XX Human biallelic marker upstream amplification primer SEQ ID NO:6934.
DE
XX Human genome; biallelic marker; high density disequilibrium map;
KM genomic map; haplotype; phenotype; polymorphic base; genotyping;
KM haplotyping; hybridisation; identification; characterisation;
KM amplification; single nucleotide polymorphism; SNP; PCR primer;
XX diagnosis; ss.
XX
XX Homo sapiens.
OS
XX WO9954500-A2.
PN
XX 28-OCT-1999.
XX

XX 14-JUL-2005 (first entry)
 DT
 DE Indian hedgehog (1hh) gene, PCR primer Angl #1.
 XX
 XX Indian hedgehog; Hemostatic; Cell Therapy; cell proliferation;
 KW bone marrow transplantation; heart disease; cardiac;
 KW cardiovascular disease; liver disease; hepatocytic;
 KW gastrointestinal disease; cell culture; ss; primer; PCR.
 XX
 OS Homo sapiens.
 XX
 PN WO2005042740-A1.
 XX
 PD 12-MAY-2005.
 XX
 PF 18-MAR-2004; 2004WO-JP003695.
 XX
 PR 31-OCT-2003; 2003JP-00373173.
 XX
 PA (RENO-) RENOMEDIX INST INC.
 XX
 PI Kobune M, Hamada H, Nitsui Y;
 XX
 DR WPI; 2005-346876/35.
 XX
 PT Enhancing hematopoiesis-supporting ability of immortalized human bone-
 PT marrow stroma cells comprising transferring Indian hedgehog gene via
 PT retrovirus vector, for use in regeneration medicine.
 XX
 PS Disclosure; Page 10; 42pp; Japanese.
 XX
 CC The invention relates to a method for the proliferation of hematopoietic
 CC cells, which comprises expressing a polypeptide with use of a gene that
 CC encodes a polypeptide with the proliferative activity of hematopoietic
 CC cells selected from e.g. a polypeptide of sequence (I) with 202 amino
 CC acids ABA04765, a polypeptide containing at least 28-202 amino acid
 CC residues in the sequence (I) and a polypeptide derived from the sequence
 CC (I). Also included are: a similar method for the proliferation of
 CC hematopoietic cells by expressing a gene that contains a DNA chosen from
 CC (a) a DNA with a sequence of (II) of 609 base pairs ABA04766, (b) a DNA
 CC containing at least 81-606 base pairs in the sequence (II) and (c) a DNA
 CC hybridizable with any of the DNAs in (a) and (b) under stringent
 CC conditions and encoding a protein with Indian hedgehog activity; bone-
 CC marrow stroma cells transferred with the gene that encodes such
 CC polypeptide with proliferative activity on hematopoietic cells; a method
 CC for proliferating hematopoietic cells by co-culturing such bone-marrow
 CC stroma cells with hematopoietic cells; an expression vector for enhancing
 CC the hematopoiesis comprising a gene that encodes the already-specified
 CC polypeptide; and enhancement agents for hematopoietic cells containing
 CC the already-specified polypeptides as active ingredient. The bone-marrow
 CC stroma cells are particularly those previously with hTERT (human
 CC telomerase catalytic domain) gene transferred, and also with a gene that
 CC encodes a polypeptide with proliferative activity on hematopoietic cells
 CC transferred by using a retrovirus vector. The produced bone-marrow stroma
 CC cells are for use in regeneration medicine, e.g. bone-marrow transplant
 CC and tissue regeneration particularly of blood vessels, heart muscle and
 CC liver. With this method, the hematopoiesis-supporting ability of
 CC immortalized human bone-marrow stroma cells is greatly enhanced, and
 CC hematopoietic stroma cells are strongly amplified when the 1hh (Indian
 CC hedgehog) stroma cells are used. The hTERT stroma cell line (1hh stroma
 CC cell line) was established with use of a PRX-ZRS-hGFP vector for
 CC transferring an Indian hedgehog gene before overexpressing such gene. The
 CC present sequence represents a PCR primer used to amplify the Indian
 CC hedgehog (1hh) gene.
 CC
 SQ Sequence 18 BP; 5 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
 XX
 XX
 Query Match 0.9%; Score 15.4; DB 1; Length 18;
 Best Local Similarity 64.7%; Pred. No. 3.8e+02;
 Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
 1676 UGUGGCGGAGUGGAC 1692

DB :|||:||||:||||
 18 TGTGTCCAGTGTGAC 2
 RESULT 689
 AED16008/c
 ID AED16008 standard; DNA; 18 BP.
 XX
 AC AED16008;
 XX
 DT 15-DEC-2005 (first entry)
 XX
 DE Probe for blood cell antigen HPA3-allele a, HPA-3aa.
 XX
 KW Probe; ss; blood; DNA typing; blood transfusion; blood group;
 KW SNP detection; DNA microarray.
 XX
 OS Homo sapiens.
 XX
 PN WO2005095650-A1.
 XX
 PD 13-OCT-2005.
 XX
 PF 31-MAR-2005; 2005WO-NL000236.
 XX
 PR 01-APR-2004; 2004EP-00076046.
 XX
 PA (SANG-) STICHTING SANQUIN BLOEDVOORZIENING.
 XX
 PI Belboer SHW, Wieringa-Jelma H, Den Dunnen JT, De Haas M;
 XX
 DR WPI; 2005-725532/74.
 XX
 PT Genotyping blood cell antigens, by amplifying and detectably labeling DNA
 PT by multiplex PCR at region of locus of blood cell antigen containing
 PT nucleotide polymorphism, determining genotype for blood cell antigens
 PT using chimeric primers.
 XX
 PS Claim 13; SEQ ID NO 81; 80pp; English.
 XX
 CC The invention relates to genotyping (M1) blood cell antigens, comprising
 CC subcloning DNA from the individual to a multiplex PCR to amplify (and
 CC detectably label) a region of the locus of different blood cell antigens
 CC containing the site of a nucleotide polymorphism (arranged in an array)
 CC and using the amplified and labeled DNA fragments to determine the
 CC genotype for each of the blood cell antigens, using a pair of blood cell
 CC antigen-specific chimeric primers and a detectably labeled universal
 CC primer. Also included are a kit (I) for genotyping blood cell antigens by
 CC (M1) (comprising a pair of blood cell antigen-specific chimeric primers
 CC for each blood cell antigen to be genotyped and a detectably labeled
 CC universal primer, preferably a pair of detectably labeled universal
 CC primers), a set of blood cell antigen-specific chimeric primer pairs
 CC useful in a multiplex PCR (comprising at least two, preferably
 CC substantially all of chimeric primers) and a set of blood cell antigen
 CC allele-specific oligonucleotide probes useful for genotyping blood cell
 CC antigens. (M1) enables genotyping of large number of blood cell antigens
 CC and is a practical, rapid and reliable method for analyzing the
 CC hybridization results to assign the clinically relevant blood cell
 CC antigen genotypes. The present sequence is a blood group antigen specific
 CC probe useful in the method of the invention.
 CC
 SQ Sequence 18 BP; 2 A; 13 C; 1 G; 2 T; 0 U; 0 Other;
 XX
 XX
 Query Match 0.9%; Score 15.4; DB 1; Length 18;
 Best Local Similarity 82.4%; Pred. No. 3.8e+02;
 Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 1179 GGAGAGCUGGCGAUGC 1195
 DB |||||:||||:||||
 17 GGAGGCGCTGGGAGTGC 1
 RESULT 690

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 3.8e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1173 GCTUGAGAGAGAGCTUG 1189
||:|||||:|||||:
DB 1 GCATGAGAGAGAGCTGG 17

RESULT 686
ADE14992
ID ADE14992 standard; DNA; 18 BP.
XX
XX ADE14992;
AC
XX 29-JUN-2004 (first entry)
DT
XX
DE Beer spoilage-associated primer SEQ ID 187.
XX
XX ss; primer; detection; beer-spoilage; lactic acid bacteria;
KM Gram-negative bacteria; spoilage bacteria.
XX
XX Lactobacillus buchneri.
OS
XX WO2002103043-A2.
PN
XX 27-DEC-2002.
PD
XX 19-JUN-2002; 2002WO-EP006808.
PF
XX 19-JUN-2001; 2001DE-01029410.
PR
XX (VERM-) VERMICON AG.
PA
XX Beinfuhr C, Snaidr J;
PI
XX WPI; 2003-175243/17.
DR
XX New oligonucleotides, useful for rapid detection of beer-spoilage
PT bacteria by in situ hybridization, are specific for type, genus or
PS species.
XX
XX Claim 1; SEQ ID NO 187; 88pp; German.
PS
XX This invention describes novel oligonucleotides used in a method for
CC detecting beer-spoilage bacteria in a sample. The bacteria detected
CC include lactic acid bacteria of the genera Lactobacillus or Pedococcus,
CC especially the species L. coryniformis, L. perolens, L. buchneri, L.
CC plantarum, L. fructivorans, L. lindneri, L. casei, L. brevis or P.
CC damnosus or Gram-negative bacteria of the genera Pectinatus and M.
CC Megaspilaera, specifically P. trisingensis, P. cerevisiophilus and M.
CC cerevisiae. The oligonucleotides of the invention provide rapid detection
CC of spoilage bacteria (typically within 48 hours, compared with 7-12 days
CC for conventional culture methods), can detect all relevant bacteria in
CC parallel, can differentiate between species of the same genus, and are
CC easy to use. ADE14806-ADE15247 represent the oligonucleotides used in the
CC method of the invention.
XX
XX
SQ Sequence 18 BP; 4 A; 7 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 3.8e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 153 UCCAGACCGUACCCACCG 169
||:|||||:|||||:
DB 1 TCCATACGGTACCAACCG 17

RESULT 687
ADM16801/C
ID ADM16801 standard; DNA; 18 BP.
XX

XX
XX ADM16801;
AC
XX 17-JUN-2004 (first entry)
DT
XX
XX Hepatitis B virus (HBV) genomic DNA, PCR primer HBV-CCC-F2.
DE
XX
XX Hepatitis B virus; HBV; covalently closed circular DNA; cccDNA;
KM liver cell; anti-HBV therapy; liver biopsy; antiviral therapy; PCR;
KM primer; ss.
XX
XX Hepatitis B virus.
OS
XX US2004058314-A1.
PN
XX 25-MAR-2004.
PD
XX 29-MAY-2003; 2003US-00449801.
PF
XX 29-MAY-2002; 2002US-0383953P.
PR
XX (HEML/) HE M L.
PA (KUNG/) KUNG H.
PA (LINM/) LIN M C M.
XX
XX He ML, Kung H, Lin MCM;
PI
XX WPI; 2004-338969/31.
DR
XX
XX
XX Specific detection of Hepatitis B virus (HBV) covalently closed circular
PT (ccc) DNA from liver cell biopsies by real-time PCR, useful for guiding
PT long-term anti-HBV therapy.
PT
XX
XX Claim 9; SEQ ID NO 2; 17pp; English.
PS
XX
XX The present invention relates to a method for detecting Hepatitis B virus
CC (HBV) covalently closed circular (ccc) DNA. The method comprises
CC obtaining a sample of liver cells infected with HBV cccDNA virus from a
CC patient, preparing at least one primer for applying to at least one end
CC of the HBV cccDNA virus, amplifying the HBV cccDNA virus by PCR using at
CC least one primer, preparing at least one probe for applying to the HBV
CC cccDNA virus genome, where the probe comprises a dye and a dye quencher,
CC and conducting a second PCR to bind at least one primer to at least one
CC probe so that the dye and the dye quencher in the probe are separated
CC allowing the HBV cccDNA virus to be detected through the dye. Also
CC disclosed is a kit for the detection of HBV cccDNA in a patient. The
CC method of the invention is useful for detecting cccDNA of HBV in the form
CC of a HBV cccDNA genome from an infected liver cell and for providing
CC guidance to the patient undergoing long term anti-HBV therapy. The method
CC is efficient, rapid, economical and highly sensitive in monitoring HBV
CC cccDNA in infected human liver biopsies. The method is specific for HBV
CC cccDNA as viral genomic DNA is not amplified. The persistence of HBV
CC cccDNA is believed to be the major reason for relapse after HBV antiviral
CC therapy, but prior art methods are poor at quantifying cccDNA in infected
CC liver cells. The present sequence represents a PCR primer used in the
CC method of the invention.
XX
XX
SQ Sequence 18 BP; 4 A; 7 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 3.8e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1527 CAUGGUCUGUGAACA 1543
||:|||||:|||||:
DB 1 CATGGTCTGTGAACA 1

RESULT 688
AEA04773/C
ID AEA04773 standard; DNA; 18 BP.
XX
XX AEA04773;
AC

XX 12-SEP-1996.
 PD 02-MAR-1996; 96WO-EP000852.
 XX 03-MAR-1995; 95IT-MI000420.
 XX (CNDR) CONSIGLIO NAZ DELLE RICERCHE.
 PA Capaccioli S, Morelli S, Nicolin A;
 PI WPI; 1996-425424/42.
 DR
 XX
 PT New chimeric bcl-2/IgH antisense transcript of t(14; 18) translocated
 PT cells - used to develop oligodeoxynucleotides for the diagnosis and
 PT treatment of tumours associated with the translocation.
 XX
 PS Claim 9; Page 15; 32pp; English.
 XX
 CC AAT35435-T35438 are small oligodeoxynucleotides (ODNs) derived from a
 CC chimeric bcl-2/IgH (immunoglobulin heavy chain) gene present in the t(14;
 CC 18) chromosomally translocated non-Hodgkin's lymphoma cell line DOHH2.
 CC The ODNs are from either the J6 or J6/E region of the IgH sequence, they
 CC are used for the design of antisense transcripts which can inhibit the
 CC production of bcl-2 protein in t(14; 18) translocated cells and induce
 CC cell death. The antisense transcripts can be used for the diagnosis and
 CC treatment of t(14; 18)-associated tumours and for monitoring treatment of
 CC a pathology associated with a t(14; 18) translocation. (Updated on 25-MAR
 CC -2003 to correct PR field.)
 CC
 SQ Sequence 18 BP; 6 A; 2 C; 7 G; 3 T; 0 U; 0 Other;
 Query Match 0.9%; Score 15.4; DB 1; Length 18;
 Best Local Similarity 76.5%; Pred. No. 3.8e+02;
 Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
 QY 631 GUGGAAAGAGAACUGU 647
 | : ||||| : ||||| :
 Db 2 GCTGAAAGAGAACTCT 18
 RESULT 684
 AAT35454
 ID AAT35454 standard; DNA; 18 BP.
 AC AAT35454;
 XX
 DT 25-MAR-2003 (revised)
 DT 27-MAY-1997 (first entry)
 XX
 DE Immunoglobulin heavy chain J6/E region oligonucleotide.
 XX
 KW Immunoglobulin heavy chain; IgH; immuno-response; antisense; leukaemia;
 KW neoplasia; tumour; cancer; lymphoma; lymphocyte; J region; E region;
 KW enhancer; J6 region; ss.
 XX
 OS Synthetic.
 XX
 PN WO9627664-A2.
 XX
 PD 12-SEP-1996.
 XX
 PP 01-MAR-1996; 96WO-EP000853.
 XX
 PR 03-MAR-1995; 95IT-MI000419.
 XX
 PA (CNDR) CONSIGLIO NAZ DELLE RICERCHE.
 PI Morelli S, Nicolin A, Quattrone A;
 XX WPI; 1996-425425/42.
 DR
 XX
 PT Antisense transcript complementary to pre-mRNA of IgH gene and

PT oligodeoxynucleotide inhibitor - used to monitor possible changes in the
 PT immuno-response.
 XX
 PS Claim 3; Page 18; 26pp; English.
 XX
 CC AAT35451-T35454 are sense-oriented oligodeoxynucleotides (ODNs) derived
 CC from the J6/E (enhancer) region of the immature regular mRNA of the
 CC immunoglobulin heavy chain (IgH) gene. The ODNs inhibit the action of
 CC antisense transcripts complementing the immature mRNA of the IgH gene.
 CC They can be used to monitor possible changes in the immuno-response due
 CC to alterations in the expression of the antisense transcript in normal
 CC and leukemic lymphocytes. (Updated on 25-MAR-2003 to correct PR field.)
 CC
 SQ Sequence 18 BP; 6 A; 2 C; 7 G; 3 T; 0 U; 0 Other;
 Query Match 0.9%; Score 15.4; DB 1; Length 18;
 Best Local Similarity 76.5%; Pred. No. 3.8e+02;
 Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
 QY 631 GUGGAAAGAGAACUGU 647
 | : ||||| : ||||| :
 Db 2 GCTGAAAGAGAACTCT 18
 RESULT 685
 AAX23093
 ID AAX23093 standard; DNA; 18 BP.
 AC AAX23093;
 XX
 DT 11-JUN-1999 (first entry)
 XX
 DE Primer #16.
 XX
 KW Minimal residual disease; cancer; treatment; malignancy-specific;
 KW fluorogenic probe; quantitative detection; primer; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 XX
 PN WO9914366-A2.
 XX
 PD 25-MAR-1999.
 XX
 PF 18-SEP-1998; 98WO-NL000542.
 XX
 PR 18-SEP-1997; 97EP-00202858.
 XX
 PA (UYRO-) UNIV ROTTERDAM ERASMUS.
 XX
 PI Van Dongen JIM, Pongers-Willems MJ;
 XX WPI; 1999-229551/19.
 XX
 PT Determining residual disease comprises using a fluorogenic probe specific
 PT to a malignancy-specific nucleic acid sequence.
 XX
 PS Disclosure; Page 15; 49pp; English.
 XX
 CC This invention describes a method for determining minimal residual
 CC disease during and after cancer treatment. The method involves amplifying
 CC nucleic acid molecules using at least one primer reactive with a common
 CC gene segment, and identifying malignancy-specific nucleic acid sequences
 CC by hybridizing with a fluorogenic probe specific to the malignancy-
 CC specific nucleic acid sequences. The method is not restricted to a set of
 CC patients as in immunological marker analysis, and the new technique
 CC allows quantitative detection of frequencies of malignant cells, unlike
 CC current PCR methods, which are also time-consuming, inaccurate and
 CC difficult to standardize. The new method takes 3 hours, compared to 5
 CC days for conventional techniques, and has equal sensitivity. This
 CC sequence represents a primer used in the method of the invention
 XX
 SQ Sequence 18 BP; 5 A; 2 C; 9 G; 2 T; 0 U; 0 Other;

PN US2004054156-A1.
XX
XX 18-MAR-2004.
XX
XX 15-JUN-2003; 2003US-00342902.
XX
XX 14-MAY-1992; 92US-00882712.
PR 07-FEB-1994; 94US-00193627.
PR 08-NOV-1999; 99US-00436430.
PR 20-MAR-2000; 2000US-00531025.
PR 09-AUG-2000; 2000US-00636385.
PR 24-OCT-2000; 2000US-00696347.
PR 08-JUN-2001; 2001US-00877478.
XX
XX (DRAP/) DRAPER K.
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J A.
PA (MORR/) MORRISSEY D.
XX
XX Draper K, Blatt L, Mcswiggen JA, Morrissey D;
PI WPI; 2004-247781/23.
XX
XX Novel enzymatic nucleic acid molecule such as DNazymes and inozymes
PT specifically cleaving RNA derived from hepatitis B virus and comprising
PT one or more binding arms, useful for treating hepatitis and cirrhosis.
XX
XX Disclosure; SEQ ID NO 1123; 122pp; English.
XX
XX The invention relates to an enzymatic nucleic acid molecule that
CC specifically cleaves RNA derived from hepatitis B virus (HBV) and
CC comprising one or more binding arms, without requiring the presence of a
CC 2'-OH group within the molecule for activity. The nucleic acids are
CC useful for treating hepatitis B virus infection, hepatitis,
CC hepatocellular carcinoma, cirrhosis and liver failure, either alone or in
CC combination with other therapies such as lamivudine and interferons. The
CC nucleic acids are useful as diagnostic tools to examine genetic drift and
CC mutations within diseased cells, for detecting the presence of HBV RNA in
CC a cell, for the study of RNA and for down-regulating gene expression of
CC target genes in bacterial, fungal, viral, plant or mammalian cells. This
CC sequence represents an HBV RNA target sequence, used in the scope of the
CC invention. Note: The sequence data for this patent is also available in
CC electronic format from USPTO at seqdata.uspto.gov/sequence.html.
XX
XX
SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 3.4e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1528 AUGGUCUGUGAACC 1544
DB 17 ATGGTCTGTGTGAAC 1
RESULT 682
ID ADM58990/C
ID ADM58990 standard; RNA; 17 BP.
XX
XX ADM58990;
XX
XX 03-JUN-2004 (first entry)
XX
XX Hepatitis B virus (HBV) RNA target sequence #1124.
XX
XX Hepatitis B virus; HBV; ss; enzymatic nucleic acid; RNA cleavage;
KW hepatitis B virus infection; hepatitis; hepatocellular carcinoma;
KW cirrhosis; liver failure; lamivudine; interferon; genetic drift;
KW viraemia; hepatotropic; antiinflammatory; cytostatic.
XX
XX Hepatitis B virus.
OS
XX US2004054156-A1.
PN

XX
XX 18-MAR-2004.
PD
XX 15-JUN-2003; 2003US-00342902.
PF
XX 14-MAY-1992; 92US-00882712.
PR 07-FEB-1994; 94US-00193627.
PR 08-NOV-1999; 99US-00436430.
PR 20-MAR-2000; 2000US-00531025.
PR 09-AUG-2000; 2000US-00636385.
PR 24-OCT-2000; 2000US-00696347.
PR 08-JUN-2001; 2001US-00877478.
XX
XX (DRAP/) DRAPER K.
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J A.
PA (MORR/) MORRISSEY D.
XX
XX Draper K, Blatt L, Mcswiggen JA, Morrissey D;
PI WPI; 2004-247781/23.
XX
XX Novel enzymatic nucleic acid molecule such as DNazymes and inozymes
PT specifically cleaving RNA derived from hepatitis B virus and comprising
PT one or more binding arms, useful for treating hepatitis and cirrhosis.
XX
XX Disclosure; SEQ ID NO 1124; 122pp; English.
XX
XX The invention relates to an enzymatic nucleic acid molecule that
CC specifically cleaves RNA derived from hepatitis B virus (HBV) and
CC comprising one or more binding arms, without requiring the presence of a
CC 2'-OH group within the molecule for activity. The nucleic acids are
CC useful for treating hepatitis B virus infection, hepatitis,
CC hepatocellular carcinoma, cirrhosis and liver failure, either alone or in
CC combination with other therapies such as lamivudine and interferons. The
CC nucleic acids are useful as diagnostic tools to examine genetic drift and
CC mutations within diseased cells, for detecting the presence of HBV RNA in
CC a cell, for the study of RNA and for down-regulating gene expression of
CC target genes in bacterial, fungal, viral, plant or mammalian cells. This
CC sequence represents an HBV RNA target sequence, used in the scope of the
CC invention. Note: The sequence data for this patent is also available in
CC electronic format from USPTO at seqdata.uspto.gov/sequence.html.
XX
XX
SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;
Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 3.4e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1527 CAUGGUCUGUGAACA 1543
DB 17 CATGGTCTGTGTGAACA 1
RESULT 683
ID AAT35438
ID AAT35438 standard; DNA; 18 BP.
XX
XX AAT35438;
XX
XX 25-MAR-2003 (revised)
DT 27-MAY-1997 (first entry)
XX
XX Non-Hodgkin's B cell line bcl-2/Igh chimeric gene J6 or J6/E sequence.
XX
XX Non-Hodgkin's lymphoma; cell line DOHH2; DHL-4; leukaemia; chromosome;
KW t14; t18; q32; q21; N region; antisense; expression; inhibitor; bcl-2;
KW IGH; immunoglobulin heavy chain; hybrid; cell death; tumour; cancer;
KW neoplasia; diagnosis; translocation; chimera; ss.
XX
XX Synthetic.
OS
XX WO9627663-A2.
PN

PA (LEBP/) LEE P.
 PA (DRAP/) DRAPER K.
 PA (ROBE/) ROBERTS E.
 PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;
 DR WPI; 2003-229207/22.
 PT Novel compound useful for treating cirrhosis, liver failure,
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus
 PT infection.
 PS Example 1; Page 158; 387pp; English.
 CC The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
 CC inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer 1 region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HBV
 CC ribozyme, inozyme, G-cleaver, zinzyme, DNazyme or amberzyme sequences
 CC disclosed in the present invention
 CC
 SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;
 SQ
 Query Match 0.9%; Score 15.4; DB 1; Length 17;
 Best Local Similarity 70.6%; Pred. No. 3.4e+02;
 Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
 QY 1528 AUGGUCUGUGAACAAC 1544
 Db 17 ATGGTCTGTGTGAACAC 1
 RESULT 680
 ACD52497/C
 ID ACD52497 standard; RNA; 17 BP.
 XX
 AC ACD52497;
 XX
 DT 24-SBP-2003 (first entry)
 XX
 DE HBV inozyme substrate sequence #423.
 XX
 KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
 KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;
 KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer 1 region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW virucide; antiinflammatory; substrate; ss.
 XX
 OS Hepatitis B virus.
 XX
 PN WO200281494-A1.
 XX
 PD 17-OCT-2002.
 XX
 PF 26-MAR-2002; 2002WO-US009187.
 XX
 PR 26-MAR-2001; 2001US-00817879.

PR 08-JUN-2001; 2001US-00877478.
 PR 08-JUN-2001; 2001US-0296876P.
 PR 24-OCT-2001; 2001US-0335059P.
 PR 05-DEC-2001; 2001US-0337055P.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLAT/) BLATT L.
 PA (MACE/) MACEJAK D.
 PA (MCSW/) MCSWIGGEN J.
 PA (MORR/) MORRISSEY D.
 PA (PAVC/) PAVCO P.
 PA (LEBP/) LEE P.
 PA (DRAP/) DRAPER K.
 PA (ROBE/) ROBERTS E.
 XX
 PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;
 DR WPI; 2003-229207/22.
 PT Novel compound useful for treating cirrhosis, liver failure,
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus
 PT infection.
 PS Example 1; Page 158; 387pp; English.
 CC The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
 CC inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer 1 region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HBV
 CC ribozyme, inozyme, G-cleaver, zinzyme, DNazyme or amberzyme sequences
 CC disclosed in the present invention
 CC
 SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;
 SQ
 Query Match 0.9%; Score 15.4; DB 1; Length 17;
 Best Local Similarity 70.6%; Pred. No. 3.4e+02;
 Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
 QY 1527 CAUGGUCUGUGAACA 1543
 Db 17 CATGGTCTGTGTGAACA 1
 RESULT 681
 ADM58989/C
 ID ADM58989 standard; RNA; 17 BP.
 XX
 AC ADM58989;
 XX
 DT 03-JUN-2004 (first entry)
 XX
 DE Hepatitis B virus (HBV) RNA target sequence #1123.
 XX
 KW Hepatitis B virus; HBV; ss; enzymatic nucleic acid; RNA cleavage;
 KW hepatitis B virus infection; hepatitis; hepatocellular carcinoma;
 KW cirrhosis; liver failure; lamivudine; interferon; genetic drift;
 KW virucide; hepatotropic; antiinflammatory; cytostatic.
 XX
 OS Hepatitis B virus.
 XX

CC cells and to detect the presence of specific RNA in a cell. The present
CC sequence represents a substrate sequence for an inozyme used in the
CC examples of the present invention. Note: Some SEQ ID Nos are repeated
CC more than once in the specification, but these have different sequences
CC associated with them.

XX SQ Sequence 17 BP; 4 A; 6 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.4; DB 1; Length 17;

Best Local Similarity 70.6%; Pred. No. 3.4e+02;

Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

YY 1527 CAUGGUCUGUGAACA 1543

Db 17 CATGCTCTGTGACAC 1

RESULT 678

ADVA7175/c

ID ADVA7175 standard; DNA; 17 BP.

XX AC ADVA7175;

XX DT 10-FEB-2005 (first entry)

XX DE HBV inozyme substrate sequence #422.

KW Enzymatic nucleic acid molecule; gene expression; down regulation;
KW protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
KW beta-secretase; BACE1; human epidermal growth factor receptor-2; HER2;
KW c-erbB2; neu; phospholamban; PIN; presenilin-1; ps-1; presenilin-2; ps-2;
KW hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver;
KW amberyzyme; zinzyme; DNAzyme; cancer; breast cancer; Alzheimer's disease;
KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
KW hepatitis B infection; hepatocellular carcinoma; genetic drift; ds.

XX OS Hepatitis B virus.

XX FN WO200116312-A2.

XX PD 08-MAR-2001.

XX PF 30-AUG-2000; 2000WO-US023998.

XX PR 31-AUG-1999; 99US-0151713P.

XX PR 27-SEP-1999; 99US-00406643.

XX PR 27-SEP-1999; 99US-0156236P.

XX PR 27-SEP-1999; 99US-0156467P.

XX PR 08-NOV-1999; 99US-00436430.

XX PR 06-DEC-1999; 99US-0169100P.

XX PR 29-DEC-1999; 99US-00474432.

XX PR 29-DEC-1999; 99US-0173612P.

XX PR 30-DEC-1999; 99US-00476387.

XX PR 04-FEB-2000; 2000US-00498824.

XX PR 20-MAR-2000; 2000US-00531025.

XX PR 14-APR-2000; 2000US-0197769P.

XX PR 23-MAY-2000; 2000US-00578223.

XX PR 09-AUG-2000; 2000US-00636385.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PI McEwiggen J, Usman N, Blatt L, Beigelman L, Burgin A;

XX PI Karpelesky A, Matulic-Adamic J, Sweedler D, Draper K, Chowrira B;

XX PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;

XX DR WPI, 2001-244406/25.

XX PT Enzymatic nucleic acid molecules able to cleave separate RNA molecules

XX PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,

XX PT obesity and heart disease.

XX PS Example 6; Page 523; 717p; English.

XX The present invention relates to the use of enzymatic nucleic acid

CC molecules (e.g. ribozymes) to modulate gene expression. The invention

CC also methods for their use to down regulate or inhibit the expression of

CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine

CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C

CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor

CC receptor-2 (HER2/c-erbB2/neu), phospholamban (PIN), presenilin-1 (ps-1),

CC presenilin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic

CC nucleic acid molecules used to inhibit the expression of the said genes

CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberyzyme,

CC zinzyme, and/or DNAzyme motifs. The methods of the invention are useful

CC for treating cancer, in particular breast cancer. Alzheimer's disease,

CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related

CC diseases, hepatitis B infections, and hepatitis and hepatocellular

CC carcinoma. The enzymatic nucleic acid molecules can also be used as

CC diagnostic tools to examine genetic drift and mutations within diseased

CC cells and to detect the presence of specific RNA in a cell. The present

CC sequence represents a substrate sequence for an inozyme used in the

CC examples of the present invention. Note: Some SEQ ID Nos are repeated

CC more than once in the specification, but these have different sequences

XX associated with them.

XX SQ Sequence 17 BP; 4 A; 6 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.4; DB 1; Length 17;

Best Local Similarity 70.6%; Pred. No. 3.4e+02;

Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

YY 1528 AUGGUCUGUGAACAAC 1544

Db 17 ATGCTCTGTGACAC 1

RESULT 679

ACD52496/c

ID ACD52496 standard; RNA; 17 BP.

XX AC ACD52496;

XX DT 24-SEP-2003 (first entry)

XX DE HBV inozyme substrate sequence #422.

KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

KW RNA stability; RNA expression; RNA synthesis; antisense;

KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;

KW amberyzyme; G-cleaver ribozyme; decoy molecule; aptamer;

KW HBV reverse transcriptase; Enhancer I region; viral replication;

KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;

KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

KW virulence; antiinflammatory; substrate; ss.

XX OS Hepatitis B virus.

XX FN WO200281494-A1.

XX PD 17-OCT-2002.

XX PF 26-MAR-2002; 2002WO-US009187.

XX PR 26-MAR-2001; 2001US-00817879.

XX PR 08-JUN-2001; 2001US-00877478.

XX PR 08-JUN-2001; 2001US-0296876P.

XX PR 24-DEC-2001; 2001US-0335059P.

XX PR 05-DEC-2001; 2001US-0337055P.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (BLAT/) BLATT L.

XX PA (MACE/) MACEJAK D.

XX PA (MCSW/) MCSWIGGEN J.

XX PA (MORR/) MORRISSEY D.

XX PA (PAVC/) PAVCO P.

CC inflammatory diseases, disorders, or conditions in a subject or organism,
CC such as psoriasis, eczema, dermatitis, Crohn's disease, and inflammatory
CC bowel disease, and for any other disease, trait, or condition that is
CC related to or will respond to the levels of STAT3 in a cell or tissue,
CC alone or in combination with other treatments or therapies. This oligo
CC sequence represents a STAT-3 siRNA strand of the invention.
XX
SQ Sequence 19 BP; 4 A; 5 C; 7 G; 0 T; 3 U; 0 Other;
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 3.8e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 808 GCCTUCGACAGAGCAG 826
DB 1 GCCTUCGAGUCAGAGCAG 19
RESULT 676
AAF07204
ID AAF07204 standard; DNA; 17 BP.
XX
AC AAF07204;
XX
DT 16-FEB-2001 (first entry)
XX
DE Hammerhead ribozyme substrate #3461.
XX
KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
OS Homo sapiens.
XX
PN WO200061729-A2.
XX
PD 19-OCT-2000.
XX
PF 11-APR-2000; 2000WO-US009721.
XX
PR 12-APR-1999; '99US-0129390P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX
DR WPI; 2000-647423/62.
XX
PT Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
XX
PS Claim 54; Page 135; 164pp; English.
XX
CC The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TFS2 Orphan receptor, EARS/COUP-TF-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX
SQ Sequence 17 BP; 2 A; 7 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 3.4e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1047 CGCTUCGACAGAGCAG 1063
DB 1 CGCTCTCTCGAGAGG 17

RESULT 677
ADV47176/C
ID ADV47176 standard; DNA; 17 BP.
XX
AC ADV47176;
XX
DT 10-FEB-2005 (first entry)
XX
DE HBV inozyme substrate sequence #423.
XX
KW Enzymatic nucleic acid molecule; gene expression; down regulation;
KW protein-tyrosine-phosphatase-1b; PTB-1b; methionine aminopeptidase;
KW MetAP-2; human telomerase; hTERT; protein kinase C alpha; PKC alpha;
KW beta-secretase; BACE; human epidermal growth factor receptor-2; HER2;
KW c-erbB2; neu; phospholamban; PLN; presentin-1; ps-1; presentin-2; ps-2;
KW hepatitis B virus; HBV; hammerhead; HH; hairpin; NCH; inozyme; G-cleaver;
KW amberyne; zinzyme; DNazyme; cancer; breast cancer; Alzheimer's disease;
KW diabetes; obesity; cardiac disease; heart disease; age-related disease;
KW hepatitis B infection; hepatocellular carcinoma; genetic drift; ds.
XX
OS Hepatitis B virus.
XX
PN WO200116312-A2.
XX
PD 08-MAR-2001.
XX
PF 30-AUG-2000; 2000WO-US023998.
XX
PR 31-AUG-1999; 99US-0151713P.
PR 27-SEP-1999; 99US-00406643.
PR 27-SEP-1999; 99US-0156236P.
PR 27-SEP-1999; 99US-0156467P.
PR 08-NOV-1999; 99US-00346430.
PR 06-DEC-1999; 99US-0169100P.
PR 29-DEC-1999; 99US-00474432.
PR 30-DEC-1999; 99US-0173612P.
PR 29-DEC-1999; 99US-00476387.
PR 04-FEB-2000; 2000US-00498824.
PR 20-MAR-2000; 2000US-00531025.
PR 14-APR-2000; 2000US-0197769P.
PR 23-MAY-2000; 2000US-00578223.
PR 09-AUG-2000; 2000US-00636385.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Mcswiggen J, Usman N, Blatt L, Belgelman L, Burgin A;
XX
PI Karpelsky A, Matulic-Adamic J, Svedler D, Draper K, Chowrira B;
XX
PI Stinchcomb D, Beaudry A, Zinnen S, Ludwig J, Sproat BS;
XX
DR WPI; 2001-244406/25.
XX
PT Enzymatic nucleic acid molecules able to cleave separate RNA molecules
PT are used for treating cancer, Alzheimer's disease, hepatitis, diabetes,
PT obesity and heart disease.
XX
PS Example 6; Page 523; 717pp; English.
XX
CC The present invention relates to the use of enzymatic nucleic acid
CC molecules (e.g. ribozymes) to modulate gene expression. The invention
CC also methods for their use to down regulate or inhibit the expression of
CC genes encoding protein-tyrosine-phosphatase-1b (PTB-1b), methionine
CC aminopeptidase (MetAP-2), human telomerase (hTERT), protein kinase C
CC alpha (PKC alpha), beta-secretase (BACE), human epidermal growth factor
CC receptor-2 (HER2/c-erbB2/neu), phospholamban (PLN), presentin-1 (ps-1),
CC presentin-2 (ps-2), and hepatitis B virus (HBV) proteins. The enzymatic
CC nucleic acid molecules used to inhibit the expression of the said genes
CC include hammerhead (HH), hairpin, NCH (inozyme), G-cleaver, amberyne,
CC zinzyme, and/or DNazyme motifs. The methods of the invention are useful
CC for treating cancer, in particular breast cancer, Alzheimer's disease,
CC diabetes, obesity, cardiac diseases e.g. heart disease, age-related
CC diseases, hepatitis B infections, and hepatitis and hepatocellular
CC carcinoma. The enzymatic nucleic acid molecules can also be used as
CC diagnostic tools to examine genetic drift and mutations within diseased

PD 08-SEP-2005.
XX 15-DEC-2004; 2004US-00014373.
XX 18-MAY-2001; 2001US-0292217P.
PR 20-JUL-2001; 2001US-0306883P.
PR 13-AUG-2001; 2001US-0311865P.
PR 20-FEB-2002; 2002US-0358580P.
PR 06-MAR-2002; 2002US-0362016P.
PR 11-MAR-2002; 2002US-0363124P.
PR 17-MAY-2002; 2002US-00151116.
PR 17-MAY-2002; 2002US-0386782P.
PR 06-JUN-2002; 2002US-0386782P.
PR 22-JUL-2002; 2002US-00201394.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003US-05005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 03-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004US-05013456.
PR 24-MAY-2004; 2004US-05016390.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Robin H, Mcswigen J;
XX WPI; 2005-604649/62.
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of STAT3 RNA through RNA interference, useful for treating cancer and inflammatory diseases e.g. psoriasis in subject or organism.
XX
XX
XX Example 3; SEQ ID NO 239; 266pp; English.
XX
XX The invention relates to a novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of a signal transducer and activator of transcription 3 (STAT3) RNA by RNA interference. The invention further includes a composition comprising the short interfering nucleic acid in a carrier or diluent. The short interfering nucleic acid has cytosaratic, antipsoriatic, dermatological, antiinflammatory, and gastrointestinal-Gen. activities. The short interfering nucleic acid or its composition is useful for treating, preventing, inhibiting, or reducing cancer, proliferative, and/or inflammatory diseases, disorders, or conditions in a subject or organism, such as psoriasis, eczema, dermatitis, Crohn's disease, and inflammatory bowel disease, and for any other disease, trait, or condition that is related to or will respond to the levels of STAT3 in a cell or tissue, alone or in combination with other treatments or therapies. This oligo sequence represents a STAT-3 siRNA strand of the invention.
XX
XX Sequence 19 BP; 3 A; 7 C; 5 G; 0 T; 4 U; 0 Other;
PS
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 3.8e+02;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Oy 808 GCCUCUGGACAGAGAGCAG 826
Db 19 GCCTCTGAGTCAAGGCGAG 1

AEC90918
ID AEC90918 standard; RNA; 19 BP.
XX
AC AEC90918;
XX
DT 17-NOV-2005 (first entry)
XX
DE STAT-3 siRNA antisense strand, SEQ ID 516.
XX
XX Signal-transducer and activator of transcription-3; RNA interference; gene silencing; cytosaratic; antipsoriatic; dermatological; antiinflammatory; gastrointestinal-Gen.; cancer; inflammation; psoriasis; eczema; dermatitis; Crohn's disease; inflammatory bowel disease; siRNA; short interfering RNA; ss.
XX
OS Synthetic.
XX
PN US2005196781-A1.
XX
PD 08-SEP-2005.
XX
PF 15-DEC-2004; 2004US-00014373.
XX
XX 18-MAY-2001; 2001US-0292217P.
PR 20-JUL-2001; 2001US-0306883P.
PR 13-AUG-2001; 2001US-0311865P.
PR 20-FEB-2002; 2002US-0358580P.
PR 06-MAR-2002; 2002US-0362016P.
PR 11-MAR-2002; 2002US-0363124P.
PR 17-MAY-2002; 2002US-00151116.
PR 17-MAY-2002; 2002US-05015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 22-JUL-2002; 2002US-00201394.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003US-05005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004US-05013456.
PR 24-MAY-2004; 2004US-05016390.
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Robin H, Mcswigen J;
XX WPI; 2005-604649/62.
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of STAT3 RNA through RNA interference, useful for treating cancer and inflammatory diseases e.g. psoriasis in subject or organism.
XX
XX
XX Example 3; SEQ ID NO 516; 266pp; English.
XX
XX The invention relates to a novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of a signal transducer and activator of transcription 3 (STAT3) RNA by RNA interference. The invention further includes a composition comprising the short interfering nucleic acid in a carrier or diluent. The short interfering nucleic acid has cytosaratic, antipsoriatic, dermatological, antiinflammatory, and gastrointestinal-Gen. activities. The short interfering nucleic acid or its composition is useful for treating, preventing, inhibiting, or reducing cancer, proliferative, and/or

PT arthritis (RA), useful in identification of individuals at risk of
PT developing RA or other autoimmune disease, and in development of
PT therapeutic agents.

PS Claim 21; SEQ ID NO 49888; 141pp; English.

CC The invention relates to an isolated nucleic acid molecule comprising at
CC least 8 contiguous nucleotides where one of the nucleotides is a single
CC nucleotide polymorphism (SNP) selected from any one of the nucleotide
CC sequences of SEQ ID NOS 1-669 and 1339-49582, or their complements. The
CC SNPs are useful as targets for the design of diagnostic reagents and the
CC development of therapeutic agents, as well as for disease association and
CC linkage analysis. In particular, the SNPs are useful for identifying an
CC individual who is at an increased or decreased risk for developing an
CC autoimmune disease such as rheumatoid arthritis, type 1 diabetes,
CC multiple sclerosis, systemic lupus erythematosus, inflammatory bowel
CC diseases, psoriasis, thyroiditis, celiac disease, pernicious anaemia,
CC asthma, vitiligo, glomerulonephritis, Graves' disease, myocarditis,
CC Sjogren disease, or primary systemic vasculitis. Methods associated with
CC the SNPs are useful for early detection of the disease, for providing
CC clinically important information for the prevention and/or treatment of
CC the autoimmune diseases particularly rheumatoid arthritis, and for
CC screening and selecting therapeutic agents. The SNPs are useful for human
CC identification and applications. The genes containing the SNPs are useful for
CC treating the diseases defined above. The nucleic acid molecules are
CC useful as hybridization probes for genotyping SNPs in messenger RNA,
CC cDNA, genomic DNA, and genomic clones. The nucleic acid molecules are
CC useful for constructing host cells expressing a part or all of the
CC nucleic acid molecules and variant peptides, for constructing transgenic
CC animals, for assaying or screening drugs that modulate nucleic acid
CC expression, or for gene therapy in patients whose cells have aberrant
CC gene expression. This sequence corresponds to a PCR primer which
CC hybridises to the nucleic acids of the invention to amplify the SNP
CC containing region. (Note: SEQ ID NOS 1-49582 are claimed and stated as
CC being provided in the printed specification, however these sequences are not
CC provided in the printed specification).

SO Sequence 19 BP; 1 A; 5 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 84.2%; Pred. No. 3.8e+02; Mismatches 16; Conservative 1; Indels 0; Gaps 0;

QY 1713 GCAGUCCAGCAGACG 1731

DB 19 GCAGTACGACGACG 1

RESULT 673

AEC82252

ID AEC82252 standard; DNA; 19 BP.

AC AEC82252;

DT 17-NOV-2005 (first entry)

DS Human marker reverse primer SEQ ID NO:72.

KM DNA methylation; DNA preparation; marker; PCR; primer; ss.

OS Synthetic.

PN US2005202490-A1.

PD 15-SEP-2005.

PF 03-MAR-2005; 2005US-00071864.

PR 08-MAR-2004; 2004US-0551941P.

PA (MAKA/) MAKAROV V L.

PA (KAMB/) KAMBEROV E.

PA (SUNT/) SUN T.

PA (PINT/) PINTER J H.

PA (TARR/) TARRIER B J.

PA (BRUE/) BRUENING E E.

PA (KURI/) KURIHARA T.

PA (TESM/) TESMER T.

PA (MMWI/) MMWIRICHIA J.

PI Makarov VL, Kamberov E, Sun T, Pinter JH, Tarrier BJ;

PI Bruening EE, Kurihara T, Tesmer T, Mmwirichia J;

DR WPI; 2005-656755/57.

XX Preparing a DNA molecule by incorporating a nucleic acid molecule into at

PT least some of the DNA molecules digested with a methylation-sensitive

PT restriction enzyme and amplifying the first modified DNA molecules.

XX Disclosure; SEQ ID NO 72; 222pp; English.

CC The invention relates to a method for preparing a DNA molecule. The
CC method comprises: (a) providing a DNA molecule; (b) digesting the DNA
CC molecule with a methylation-sensitive restriction enzyme and optionally,
CC an additional nuclease, to provide digested DNA molecules; (c)
CC incorporating a nucleic acid molecule into at least some of the digested
CC DNA molecules to provide first modified DNA molecules by (1)
CC incorporating at least one primer from primers, the primers comprising a
CC 5' constant sequence and a 3' variable sequence that is substantially non-
CC self-complementary and substantially non-complementary to other primers;
CC or (2) incorporating an oligonucleotide comprising an inverted repeat and
CC a loop, under conditions where the oligonucleotide becomes blunt-end
CC ligated to one strand of the molecule, thereby producing an
CC oligonucleotide-linked molecule comprising a nick having a 3' hydroxyl
CC group, where there is polymerization from the 3' hydroxyl group of at
CC least part of the oligonucleotide-linked molecule; and (d) amplifying one
CC or more of the first modified DNA molecules to provide amplified first
CC modified DNA molecules. The method is useful in preparing a DNA molecule
CC for diagnosing or prognosing cancer. The method of the invention reduces
CC the quantity of DNA required for methylation analysis from non-invasive
CC clinical sources, e.g., serum, plasma or urine, since a majority of the
CC DNA may remain in an unamplified form. The present sequence represents a
CC human marker used for methylation analysis by quantitative real-time PCR,
CC which is used in an example from the present invention.

SO Sequence 19 BP; 3 A; 3 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 63.2%; Pred. No. 3.8e+02; Mismatches 12; Conservative 5; Indels 0; Gaps 0;

QY 1673 UGCGUGGCGCAGUGGA 1691

DB 1 TGCTGCCGTGACGCTGTGA 19

RESULT 674

AEC90641/C

ID AEC90641 standard; RNA; 19 BP.

AC AEC90641;

DT 17-NOV-2005 (first entry)

DS STAT-3 siRNA target/sense strand, SEQ ID 239.

KM Signal-transducer and activator of transcription-3; RNA interference;

KM gene silencing; cytosolic; antiproliferative; dermatological;

KM anti-inflammatory; gastrointestinal-Gen.; cancer; inflammation; psoriasis;

KM eczema; dermatitis; Crohns disease; inflammatory bowel disease; siRNA;

OS short interfering RNA; ss.

PN Synthetic.

PN US2005196781-A1.

XX	MO2003099227-A2.
PN	
XX	
PD	04-DEC-2003.
XX	
PF	23-MAY-2003; 2003WO-US016651.
XX	
PR	23-MAY-2002; 2002US-0383249P.
XX	
PR	14-APR-2003; 2003US-0462942P.
XX	
PA	(CEPT-) CEPTTR INC.
XX	
PI	Lewis SP, Klinghoffer R, Wilson LK;
XX	
DR	WPI; 2004-035036/03.
XX	
PT	New small interfering polynucleotide that modulates protein tyrosine
PT	phosphatase (PTP)1B polypeptide signal transduction, useful for treating
PT	disorders associated with altered PTP1B signal transduction, e.g.
XX	diabetes or cancer.
PS	
XX	Example 3; SEQ ID NO 126; 234pp: English.
XX	
CC	The invention relates to a novel isolated small interfering RNA (siRNA)
CC	polynucleotide, comprising at least one nucleotide sequence from any of
CC	the 20 fully defined sequences given in the specification. The invention
CC	further relates to: a pharmaceutical composition comprising a new siRNA
CC	polynucleotide and a physiological carrier; a recombinant nucleic acid
CC	construct, comprising a polynucleotide that is capable of directing
CC	transcription of an siRNA; a host cell transformed or transfected with
CC	the above recombinant nucleic acid construct; a method for interfering
CC	with expression of a protein tyrosine phosphatase (PTP)1B polypeptide, or
CC	its variant; a method for identifying a component of a PTP1B signal
CC	transduction pathway; a method for modulating an insulin receptor protein
CC	phosphorylation state in a cell; a method for altering a Jak2 protein
CC	phosphorylation state in a cell; and a method for treating a Jak2-
CC	associated disorder. The siRNA has the following activities:
CC	anti-diabetic, anorectic, antiinflammatory, neuroprotective, cytostatic,
CC	immunosuppressive, and antimicrobial. The novel siRNA polynucleotides can
CC	be used in gene therapy to treat disorders. The composition and methods
CC	are useful in treating disorders associated with PTP1B-mediated signal
CC	transduction, such as diabetes, obesity, hyperglycaemia-induced
CC	apoptosis, inflammation, neurodegenerative disorders, cancer, autoimmune
CC	diseases or infection. This polynucleotide sequence represents an siRNA
CC	used for modulating the signal transduction of a protein tyrosine
CC	phosphatase of the invention.
XX	
SQ	Sequence 19 BP; 9 A; 3 C; 6 G; 0 T; 1 U; 0 Other;
Query Match	0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity	52.6%; Pred. No. 3.8e+02;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;	
Oy	593 UCUUUGGCGUCGCCCAV 611 : :: :: :: :: : Db 19 TCCTTGGGCTTCCTCAG 1
RESULT 671	
ADK98261	
ID	ADK98261 standard; DNA; 19 BP.
AC	ADK98261;
XX	
DT	06-MAY-2004 (first entry)
XX	
DE	Primer of the invention #3981.
XX	
KM	human; single nucleotide polymorphism; SNP; ss; primer.
XX	Synthetic.
NN	JF2003259875-A.

[illegible]

OS	Synthetic.
XX	
PN	WO2005045040-A2.
XX	
PD	19-MAY-2005.
XX	
PF	20-AUG-2004; 2004WO-US027367.
XX	
PR	23-OCT-2003; 2003US-00693059.
PR	24-NOV-2003; 2003US-00720448.
PR	03-DEC-2003; 2003US-00720780.
PR	14-JAN-2004; 2004US-00575803.
PR	10-FEB-2004; 2004US-0543480P.
PR	13-FEB-2004; 2004US-00780447.
PR	11-MAR-2004; 2004US-00798090.
PR	16-APR-2004; 2004US-00829696.
PR	30-APR-2004; 2004WO-US013456.
PR	24-MAY-2004; 2004WO-US016390.
PR	17-AUG-2004; 2004US-00919866.
XX	
PA	(SIRN-) SIRNA THERAPEUTICS INC.
XX	
P1	Richards I, Macswigen J;
DR	WPI; 2005-356237/36.
XX	
PT	New short interfering nucleic acid molecule that directs cleavage of a
XX	cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT	respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
XX	disease.
PS	
XX	Claim 33; SEQ ID NO 275; 184pp; English.
CC	
XX	The invention relates to a chemically synthesized double stranded short
CC	interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC	cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC	(RNAi). The siRNA molecule, compounds, compositions, and methods are
CC	useful for treating or preventing respiratory and pulmonary diseases,
CC	diseases, and/or conditions, including chronic obstructive pulmonary
CC	disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC	cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC	present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX	
SQ	Sequence 21 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 0 Other;
Query March	1.1%; Score 19; DB 1; Length 21;
Best Local Similarity	100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
OY	975 GCAGATGACCAAGACCAC 993 1 GCAGATGACCAAGACCAC 19
DB	
RESULT 603	
ID	AEA02400/c
ID	AEA02400 standard; RNA; 21 BP.
XX	
AC	AEA02400;
XX	
DT	28-JUL-2005 (first entry)
XX	
DE	Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 284.
XX	
XX	Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW	Neuroprotective; Nootropic; Utopathic;
KW	chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW	sinusitis; inflammation; allergy; cystic fibrosis; alzhemiers disease;
KW	micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW	siRNA; RNA interference; gene silencing; short interfering RNA.
XX	
OS	Synthetic.
XX	

KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 294; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACCAGACGACAGC 1733
DB 19 AGTACCAGACGACAGC 1

KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
XX
PR 24-NOV-2003; 2003US-00720448.
XX
PR 03-DEC-2003; 2003US-00727780.
XX
PR 14-JAN-2004; 2004US-00757803.
XX
PR 10-FEB-2004; 2004US-0543480P.
XX
PR 13-FEB-2004; 2004US-00780447.
XX
PR 11-MAR-2004; 2004US-00798090.
XX
PR 16-APR-2004; 2004US-00826966.
XX
PR 30-APR-2004; 2004WO-US013456.
XX
PR 24-MAY-2004; 2004WO-US016390.
XX
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX
DR WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 234; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.9e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 317 UCCUCUAGCCUGGCCUG 335
DB 19 TCCTCTTAAGCCTGAGCTG 1

RESULT 601
AEA02361
ID AEA02361 standard; RNA; 21 BP.
XX
AC AEA02361;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 245.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW mucritution disorder; cholinergic receptor muscarinic 3; CHRM3; ss;


```

; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 234
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; FEATURE:
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; NAME/KEY: misc feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; NAME/KEY: misc feature
; LOCATION: (10)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-234
```

```

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
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QY      317 UCCUCUAGCCUGGCCUG 335
      :|||:|||||:|||||:
DB      19 TCCTCTAGCCTGCGCTG 1
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RESULT 920
US-10-919-866-235/c
; Sequence 235, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
```

```

; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 235
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (2)..(2)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5)..(8)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (11)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (15)..(17)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-235
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```

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY      975 GCGAUGAGCCAAAGACCAC 993
      |||||:|||||:|||||:
DB      19 GCGATGAGACCAAGACCAC 1
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```

RESULT 921
US-10-919-866-236/c
; Sequence 236, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
```

```

; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 236
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(7)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (9)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(16)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-236

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGACGACA 1730
DB 19 AGCAGTACGACGACGACGACA 1

RESULT 922
US-10-919-866-237/c
; Sequence 237, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
```

```

; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEH04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 237
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(18)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-237

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGACGACGACG 1732
DB 19 CAGTACGACGACGACGACG 1
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```

US-10-919-866-238/c
; Sequence 238, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richard, Ivan
; APPLICANT: McSwiggan, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (sina)
; FILE REFERENCE: 400/205 (MBHB04-183-A)
; CURRENT APPLICATION NUMBER: US//10/919, 866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798, 090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757, 803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720, 448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693, 059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444, 853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 238
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sina antisense region
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (3)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (6)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (12)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (16)..(16)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
; US-10-919-866-238

```

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NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-239
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      17 ACAAGACACCTCCGCTTUU 35
Db      1 ACAAGACACCTCCGCTTUU 19
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```
RESULT 925
US-10-919-866-240
Sequence 240, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MBH04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
```

```
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 240
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-240
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      21 UACAACCTCCGCTTUUUUUU 39
Db      1 UACAACCTCCGCTTUUUUUU 19
```

```
RESULT 926
US-10-919-866-241
```

Sequence 241, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 241
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (10)..(12)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (13)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety

US-10-919-866-241
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 315 CUUCCUCCUUAAGCCUGGCC 333
Db 1 CUUCCUCCUUAAGCCUGGCC 19
RESULT 927
US-10-919-866-242
Sequence 242, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 242
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (8)..(10)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (11)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (14)..(15)

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OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-242
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      317 UCCUCUUAAGCCUGGCCUG 335
      |||||
Db      1 UCCUCUUAAGCCUGGCCUG 19
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RESULT 928
US-10-919-866-243
; Sequence 243, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 243
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
```

```
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(9)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(11)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)..(15)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-243

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      975 GCAGAGCAGCAAGACCAC 993
      |||||
Db      1 GCAGAGCAGCAAGACCAC 19

RESULT 929
US-10-919-866-244
; Sequence 244, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
```

CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 244
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE: -
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
NAME/KEY: misc feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (4)..(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (7)..(7)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (10)..(11)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (12)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (13)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature

LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-244
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1712 AGCAGUACCGACGACAGA 1730
Db 1 AGCAGUACCGACGACAGA 19
RESULT 930
US-10-919-866-245
Sequence 245, Application US/10919866
GENERAL INFORMATION:
APPLICANT: Sina Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEH04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
PRIOR FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 245
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:

```

; NAME/KEY: misc feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyribasic moiety
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2)..(3)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (4)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5)..(5)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (6)..(7)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (8)..(9)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (11)..(15)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (16)..(16)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (17)..(18)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyribasic moiety
; US-10-919-866-245

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1714 CAGUACGACGAGACAGU 1732
Db       1 CAGUACGACGAGACAGU 19

RESULT 931
US-10-919-866-246
; Sequence 246, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richard, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
```

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; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 246
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc feature
; LOCATION: (1)..(2)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyribasic moiety
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (3)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (4)..(4)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (7)..(8)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (9)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (10)..(14)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (16)..(17)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
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```

; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-246
```

```

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1715 AGUACCAGCAGACAGCAGUC 1733
Db      1 AGUACCAGCAGACAGCAGUC 19
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RESULT 932
US-10-919-866-247/c
; Sequence 247, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Richard, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patenclin version 3.3
; SEQ ID NO 247
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(5)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
```

```

; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(10)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(14)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(17)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(18)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-247

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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```
QY      17 ACAGUACAACCTCGCCUUU 35
Db      19 ACAGTACAACCTCGCCTT 1
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RESULT 933
US-10-919-866-248/c
; Sequence 248, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Richard, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
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PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 248
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc_feature
LOCATION: (1)..(3)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-919-866-248

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
```

```

Db      19 TACAACTGCGCTTTGTTT 1
RESULT 934
US-10-919-866-249/c
Sequence 249, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: siNA Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MHB04-183-A)
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 249
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(7)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(19)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
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; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-249

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy      315 CUCCUCUUAAGCCUGGCC 333
Db      19 TCCTCTTAAGCCTGCGCC 1

RESULT 935
US-10-919-866-250/c
; Sequence 250, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 250
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(4)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(9)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature

; LOCATION: (10)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(19)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-250

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy      317 UCCUCUUAAGCCUGGCCUG 335
Db      19 TCCTCTTAAGCCTGCGCTG 1

RESULT 936
US-10-919-866-251/c
; Sequence 251, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 251
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy
; FEATURE:
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NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(8)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(10)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: n_stands_for_thymidine
LOCATION: (20)..(21)
OTHER INFORMATION: n_stands_for_thymidine
FEATURE:
NAME/KEY: n_stands_for_thymidine
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
US-10-919-866-251

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 975 GCAGGAGCACAAGCCAC 993
DB 19 GCAGATGACCAAGCCAC 1

RESULT 937
US-10-919-866-252/C
; Sequence 252, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggan, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
```

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;; PRIOR FILING DATE: 2004-04-16
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-11-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 324
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 252
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (2)..(2)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (3)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (8)..(8)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (9)..(10)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (11)..(12)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (13)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (14)..(14)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (15)..(16)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (17)..(17)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (18)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n_stands_for_thymidine
;; FEATURE:
```

```
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-252
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1712 AGACGACGACGACGACA 1730
Db      19  AGACGACGACGACGACA 1
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RESULT 938
US-10-919-866-253/c
Sequence 253, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: McSwiggen, James
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See file wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SBO ID NO 253
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirna antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
```

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FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(14)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-253
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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Qy      1714 CAGUACGACGACGACAGU 1732
Db      19  CAGTACCAGACGACGACGT 1

RESULT 939
US-10-919-866-254/c
Sequence 254, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: McSwiggen, James
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
```

PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 254
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(11)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(15)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-deoxy
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
US-10-919-866-254

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGAGACAGUC 1733
||:|||||||||||||||:

DB 19 AGTACCAGCAGACAGTC 1
RESULT 940
US-10-919-866-255
Sequence 255, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 255
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3' attached terminal deoxyribose moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(7)

```
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (8)..(9)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (10)..(13)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (14)..(14)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (15)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-255
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Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 17 ACAGUACAACUCCUCCUU 35
Db 1 ACAGUACAACUCCUCCUU 19
```

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RESULT 941
US-10-919-866-256
; Sequence 256, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (G1NA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
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/ SEQ ID NO 256
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (2)..(2)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (3)..(3)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (4)..(5)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (6)..(9)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (10)..(10)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (11)..(15)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (16)..(16)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (17)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-256
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Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 21 UACAACUCCUCCUCCUU 39
Db 1 UACAACUCCUCCUCCUU 19
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RESULT 942
US-10-919-866-257
; Sequence 257, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, Ivan
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;; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
;; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
;; FILE REFERENCE: 400/205 (MEHB04-183-A)
;; CURRENT APPLICATION NUMBER: US 10/919,866
;; CURRENT FILING DATE: 2004-08-17
;; PRIOR APPLICATION NUMBER: US 10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: PCT/US04/16390
;; PRIOR FILING DATE: 2004-05-24
;; PRIOR APPLICATION NUMBER: US 10/826,966
;; PRIOR FILING DATE: 2004-04-16
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-11-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 324
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 257
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(9)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (13)..(15)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (16)..(17)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (18)..(19)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (20)..(21)
;; OTHER INFORMATION: n stands for thymidine
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
;; US-10-919-866-257
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 315 CUUCCUUAAGCCUGGCC 333
|||||
Db 1 CUUCCUUAAGCCUGGCC 19
RESULT 943
US-10-919-866-258
; Sequence 258, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
;; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
;; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
;; FILE REFERENCE: 400/205 (MEHB04-183-A)
;; CURRENT APPLICATION NUMBER: US 10/919,866
;; CURRENT FILING DATE: 2004-08-17
;; PRIOR APPLICATION NUMBER: US 10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: PCT/US04/16390
;; PRIOR FILING DATE: 2004-05-24
;; PRIOR APPLICATION NUMBER: US 10/826,966
;; PRIOR FILING DATE: 2004-04-16
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-11-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 324
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 258
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (8)..(10)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (11)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (14)..(15)
;; OTHER INFORMATION: 2'-O-methyl
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (16)..(18)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:


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/ NAME/KEY: misc_feature
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-258

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 317 UCCUCUUAAGCCUGCCUG 335
Db 1 UCCUCUUAAGCCUGCCUG 19

RESULT 944
US-10-919-866-259
/ Sequence 259, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: McSwiggen, Ivan
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ TITLE OF INVENTION: Acid (siNA)
/ FILE REFERENCE: 400/205 (MBHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 259
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 2'-O-methyl
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(1)
/ OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
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/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (2)..(2)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (3)..(5)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (6)..(6)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (7)..(9)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (10)..(11)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (12)..(15)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (16)..(17)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (18)..(18)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n stands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-259

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 975 GCAGUGAGCAAGACCAC 993
Db 1 GCAGUGAGCAAGACCAC 19

RESULT 945
US-10-919-866-260
/ Sequence 260, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: McSwiggen, Ivan
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ TITLE OF INVENTION: Acid (siNA)
/ FILE REFERENCE: 400/205 (MBHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
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PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/593,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 260
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(11)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(5)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(7)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(11)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-O-methyl

FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-260
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1712 AGCAGUACCGACGACGACA 1730
DB 1 AGCAGUACCGACGACGACA 19
RESULT 946
US-10-919-866-261
Sequence 261, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/593,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 261
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(3)

```
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(5)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (6)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(9)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(15)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(18)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-261

Query Match 1.1%, Score 19, DB 1, Length 21,
Best Local Similarity 100.0%, Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGAGACAGU 1732
Db 1 CAGUACGACGAGACAGU 19

RESULT 947
US-10-919-866-262
Sequence 262, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT FILING DATE: 2004-08-17
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR APPLICATION NUMBER: PCT/US04/16390
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PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 262
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sirna sense region
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(6)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (7)..(8)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
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```

; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxybasic moiety
US-10-919-866-262

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1715 AGUACGACGACAGACAGUC 1733
Db      1 AGUACGACGACAGACAGUC 19

RESULT 948
US-10-919-866-263/c
; Sequence 263, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/593,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 263
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(5)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; NAME/KEY: misc_feature
; LOCATION: (7)..(10)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
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; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(14)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(17)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(18)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-263

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred.No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY      17 ACAGUACAACUCGCGCCUUY 35
Db      19 ACAGTACACCTCGCCTT 1

RESULT 949
US-10-919-866-264/c
; Sequence 264, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
```

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PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 264
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(3)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
US-10-919-866-264

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 21 UACAACCTCCGCUUUGUU 39
DB 19 TACAACCTCCGCUUUGTT 1
```

```

Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: siRNA Therapeutics, Inc.
APPLICANT: Richard, Ivan
APPLICANT: McSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MBH04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 265
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(7)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(19)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: Phosphorothioate 3'-internucleotide linkage
US-10-919-866-265

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
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OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(8)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(10)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-919-866-267

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5,1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      975 GCAGATGACCAAGACCAC 993
DB      19 GCAGATGACCAAGACCAC 1

RESULT 953
US-10-919-866-268/c
; Sequence 268, Application US/10919866
; Publication No. US2005017664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
```

```
PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 268
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(8)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-268

Query Match      1.1%; Score 19; DB 1; Length 21;
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Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGACAGACA 1730
DB 19 AGCAGTACCAGCAGACGACA 1

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RESULT 954
US-10-919-866-269/c
; Sequence 269, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 269
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sirta antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(4)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
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; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(14)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(16)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(18)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-269
```

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGACGACAGU 1732
DB 19 CAGTACCAGCAGACGACGT 1

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RESULT 955
US-10-919-866-270/c
; Sequence 270, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
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; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 270
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(2)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(5)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(11)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (12)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(15)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(16)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(17)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide linkage
US-10-919-866-270

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1715 AGUACGACGAGACGACGUC 1733
DB      19 AGTACGACGAGACGACGTC 1
```

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RESULT 956
US-10-919-866-271
; Sequence 271, Application US/10919866
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```
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 271
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA sense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3' attached terminal deoxyriabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3' attached terminal deoxyriabasic moiety
US-10-919-866-271

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      17 ACAGUACAACCTUCGCTTUU 35
DB      1 ACAGUACAACCTUCGCTTUU 19
```

```
RESULT 957
US-10-919-866-272
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; Sequence 272, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
```

```

; TITLE OF INVENTION: Acid (siNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 272
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
; US-10-919-866-272

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      21 UACACCCUGCCCUUUGUU 39
Db      1 UACACCCUGCCCUUUGUU 19

RESULT 958
US-10-919-866-273
; Sequence 273, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
```

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; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 273
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc.feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
; US-10-919-866-273

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      315 CUUCCUUAAGCCUGCC 333
Db      1 CUUCCUUAAGCCUGCC 19

RESULT 959
US-10-919-866-274
; Sequence 274, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
```

PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 274
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE: Description of Artificial Sequence: siRNA sense region
NAME/KEY: misc_feature
LOCATION: (1)..(21)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE: NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE: NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-274

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUAGCCUGGCGCUG 335
DB 1 UCCUCUAGCCUGGCGCUG 19

RESULT 960
US-10-919-866-275
Sequence 275, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
PRIOR FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 275
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE: Description of Artificial Sequence: siRNA sense region
NAME/KEY: misc_feature
LOCATION: (1)..(21)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
FEATURE: NAME/KEY: misc_feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
FEATURE: NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-275

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred.No.5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 975 GCAGUGAGCAAGACCAC 993
DB 1 GCAGUGAGCAAGACCAC 19

RESULT 961
US-10-919-866-276
Sequence 276, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitna Therapeutics, Inc.
APPLICANT: Richards, Ivan
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
PRIOR FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 276

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; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-276

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1712 AGCAGUACGACGACGACGA 1730
DB      1 AGCAGUACGACGACGACGA 19

RESULT 962
US-10-919-866-277
; Sequence 277, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 277
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
```

```

; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-277

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1714 CAGUACGACGACGACGACGU 1732
DB      1 CAGUACGACGACGACGACGU 19

RESULT 963
US-10-919-866-278
; Sequence 278, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 278
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
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```

; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 281
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
; US-10-919-866-281

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      315 CUUCCUUAAGCCUGGCC 333
DB      19 CTTCTTAAGCCTGCGCC 1

RESULT 967
; US-10-919-866-282/C
; Sequence 282, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
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; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 282
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
; US-10-919-866-282

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      317 UCCUUAAGCCUGGCCUG 335
DB      19 TCCTCTTAAGCCTGCGCTG 1

RESULT 968
; US-10-919-866-283/C
; Sequence 283, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
```

```

; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 283
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-283
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 975 GCAGAGGACCGACGACCAC 993

Db 19 GCAGATGACCGACGACCAC 1

RESULT 969

US-10-919-866-284/C

```

; Sequence 284, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 284
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
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```

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-284
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 1712 AGCAGUACCGACGACGACA 1730

Db 19 AGCAGTACCGACGACGACA 1

RESULT 970

US-10-919-866-285/C

```

; Sequence 285, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 285
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-285
```

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1714 CAGUACGACGACGACGU 1732
DB 19 CAGTACCAGCAGACGACGT 1

RESULT 971
US-10-919-866-286/C
; Sequence 286, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCES: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 286
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
US-10-919-866-286

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGACGACGUC 1733
DB 19 AGTACCAGCAGACGACGT 1

RESULT 972

US-10-919-866-287/C
; Sequence 287, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sitma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCES: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 287
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(5)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(14)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (16)..(17)


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OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-287
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Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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Qy 17 ACAGUACAACCTCGCCCTT 35
Db 19 ACAGTACAACCTCGCCTT 1
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RESULT 973
US-10-919-866-288/c
Sequence 288, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
PRIOR FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: Patentin version 3.3
SEQ ID NO 288
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc_feature
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LOCATION: (1)..(3)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-288
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

Qy 21 UACACCTCGCCCTTGT 39
Db 19 TACACCTCGCCTTGT 1

RESULT 974
US-10-919-866-289/c
Sequence 289, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: MCSwigen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
PRIOR FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
```

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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 289
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(2)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(7)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(19)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
; US-10-919-866-289

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      315 CUCCUCUUAAGCCUGGCC 333
DB      19 CTTCCCTTAAGCCTGGCC 1

RESULT 975
US-10-919-866-290/c
; Sequence 290, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSWiggen, James
; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siNA)
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; FILE REFERENCE: 400/205 (MEH804-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 290
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2)..(4)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(9)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(19)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
; US-10-919-866-290

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY      317 UCCUCUUAAGCCUGGCCUG 335
DB      19 TCCTCTTAAGCCTGGCCTG 1
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RESULT 976
US-10-919-866-291/c
Sequence 291, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (sina)
FILE REFERENCE: 400/205 (MBH04-183-A)
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US/10/919,866
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 291
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: sina antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(4)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(8)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(10)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-O-methyl

FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(17)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(18)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxybasic moiety
US-10-919-866-291
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 975 GCAGTGCACCAAGACCAC 993
Db 19 GCAGTGCACCAAGACCAC 1
RESULT 977
US-10-919-866-292/c
Sequence 292, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (sina)
FILE REFERENCE: 400/205 (MBH04-183-A)
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US/10/919,866
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 292
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:

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OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
NAME/KEY: misc_feature
LOCATION: (2)..(2)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)..(7)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)..(8)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (9)..(10)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(13)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(16)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(17)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (18)..(19)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc_feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-292

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1712 AGCAGUACGACGACAGACA 1730
DB      19  AGCAGTACGACGACAGACA 1

RESULT 978
US-10-919-866-293/c
; Sequence 293, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
```

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TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 293
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2)..(3)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)..(4)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (5)..(9)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (10)..(10)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (11)..(12)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (13)..(14)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)..(15)
OTHER INFORMATION: 2'-deoxy-2'-fluoro
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
OTHER INFORMATION: 2'-O-methyl
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17)..(18)
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/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(20)
/ OTHER INFORMATION: n strands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-293

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1714 CAGUACGACGACGACGACG 1732
DB      19  CAGTACGACGACGACGACGT 1

RESULT 979
US-10-919-866-294/c
; Sequence 294, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEH04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
; NAME/KEY: misc_feature
; LOCATION: (1)..(2)
; OTHER INFORMATION: 2'-O-methyl
; FEATURE:
; NAME/KEY: misc_feature
```

```
/ LOCATION: (3)..(4)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (5)..(5)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (6)..(10)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (11)..(11)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (12)..(13)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (14)..(15)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (16)..(16)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (17)..(17)
/ OTHER INFORMATION: 2'-O-methyl
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (18)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(20)
/ OTHER INFORMATION: n strands for thymidine
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-294

Query Match          1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1715 AGUACGACGACGACGACGUC 1733
DB      19  AGTACGACGACGACGACGTC 1

RESULT 980
US-10-919-866-295/c
; Sequence 295, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: MCSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEH04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
```

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; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-295
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 73.7%; Pred. No. 5.1e+02;
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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```
QY      17 ACAAGUACAACCTGCGCCUUU 35
Db      19 ACAAGTACAACCTGCGCCTT 1
```

```

RESULT 981
US-10-919-866-296/C
; Sequence 296, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
```

```

; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 296
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
; NAME/KEY: misc feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: n strands for thymidine
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-296
```

```
Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 5.1e+02;
Matches 11; Conservative 8; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      21 UACAACCTGCGCCUUUGUUU 39
Db      19 TACAACCTGCGCCTTGTTT 1
```

```

RESULT 982
US-10-919-866-297/C
; Sequence 297, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEHB04-183-A)
; CURRENT APPLICATION NUMBER: US/10/919,866
; PRIOR FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 297
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
```

OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-297

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 315 UCCUCUUAAGCGGCC 333
DB 19 TCCTCTTAAGCTGCGC 1

RESULT 983

US-10-919-866-298/c

Sequence 298, Application US/10919866
Publication No. US20050176664A1

GENERAL INFORMATION:

APPLICANT: Sirna Therapeutics, Inc.

APPLICANT: Richards, Ivan

APPLICANT: McSwigen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

FILE REFERENCE: 400/205 (MBHB04-183-A)

CURRENT APPLICATION NUMBER: US/10/919,866

PRIOR FILING DATE: 2004-08-17

PRIOR APPLICATION NUMBER: US 10/798,090

PRIOR FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: PCT/US04/16390

PRIOR FILING DATE: 2004-05-24

PRIOR APPLICATION NUMBER: US 10/826,966

PRIOR FILING DATE: 2004-04-16

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-11-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

Remaining Prior Application data removed - See File Wrapper or PALM.

SOFTWARE: PatentIn version 3.3

SEQ ID NO 298

LENGTH: 21

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE: Description of Artificial Sequence: siNA antisense region

FEATURE: Description of Artificial Sequence: siNA antisense region

NAME/KEY: misc feature

LOCATION: (20)..(20)

OTHER INFORMATION: n stands for thymidine

FEATURE: Description of Artificial Sequence: siNA antisense region

NAME/KEY: misc feature

LOCATION: (21)..(21)

OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety

US-10-919-866-298

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 5.1e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 317 UCCUCUUAAGCGGCC 335
DB 19 TCCTCTTAAGCTGCGCTG 1

RESULT 984

US-10-919-866-299/c

Sequence 299, Application US/10919866
Publication No. US20050176664A1

GENERAL INFORMATION:

APPLICANT: Sirna Therapeutics, Inc.

APPLICANT: Richards, Ivan

APPLICANT: McSwigen, James

TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic

TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic

FILE REFERENCE: 400/205 (MBHB04-183-A)

CURRENT APPLICATION NUMBER: US/10/919,866

PRIOR FILING DATE: 2004-08-17

PRIOR APPLICATION NUMBER: US 10/798,090

PRIOR FILING DATE: 2004-03-11

PRIOR APPLICATION NUMBER: PCT/US04/16390

PRIOR FILING DATE: 2004-05-24

PRIOR APPLICATION NUMBER: US 10/826,966

PRIOR FILING DATE: 2004-04-16

PRIOR APPLICATION NUMBER: US 10/757,803

PRIOR FILING DATE: 2004-01-14

PRIOR APPLICATION NUMBER: US 10/720,448

PRIOR FILING DATE: 2003-11-24

PRIOR APPLICATION NUMBER: US 10/693,059

PRIOR FILING DATE: 2003-11-23

PRIOR APPLICATION NUMBER: US 10/444,853

PRIOR FILING DATE: 2003-05-23

PRIOR APPLICATION NUMBER: PCT/US03/05346

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: PCT/US03/05028

PRIOR FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: US 60/358,580

PRIOR FILING DATE: 2002-02-20

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 324

SOFTWARE: PatentIn version 3.3

SEQ ID NO 299

LENGTH: 21

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE: Description of Artificial Sequence: siNA antisense region

FEATURE: Description of Artificial Sequence: siNA antisense region

NAME/KEY: misc feature

LOCATION: (20)..(20)

OTHER INFORMATION: n stands for thymidine

FEATURE: Description of Artificial Sequence: siNA antisense region

NAME/KEY: misc feature

LOCATION: (21)..(21)

OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety

US-10-919-866-299

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 975 GCAGATGACCAAGACC 993
DB 19 GCAGATGACCAAGACC 1

RESULT 985

US-10-919-866-300/c

```
Sequence 300, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT FILING DATE: 2004-08-17
PRIORITY FILING DATE: 2004-03-11
PRIORITY FILING DATE: 2004-03-11
PRIORITY FILING DATE: 2004-05-24
PRIORITY FILING DATE: 2004-05-24
PRIORITY FILING DATE: 2004-04-16
PRIORITY FILING DATE: 2004-04-16
PRIORITY FILING DATE: 2004-01-14
PRIORITY FILING DATE: 2003-11-24
PRIORITY FILING DATE: 2003-11-24
PRIORITY FILING DATE: 2003-11-23
PRIORITY FILING DATE: 2003-11-23
PRIORITY FILING DATE: 2003-05-23
PRIORITY FILING DATE: 2003-05-23
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 300
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-300

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 5.1e+02;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1712 AGCAGUACGACGACGACA 1730
DB      19 AGCGTACGACGACGACGACA 1

RESULT 986
US-10-919-866-301/C
Sequence 301, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT FILING DATE: 2003-11-24
PRIORITY FILING DATE: 2003-11-24
PRIORITY FILING DATE: 2003-05-23
PRIORITY FILING DATE: 2003-05-23
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 301
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-301
```

```
CURRENT FILING DATE: 2004-08-17
PRIORITY FILING DATE: 2004-03-11
PRIORITY FILING DATE: 2004-03-11
PRIORITY FILING DATE: 2004-05-24
PRIORITY FILING DATE: 2004-05-24
PRIORITY FILING DATE: 2004-04-16
PRIORITY FILING DATE: 2004-04-16
PRIORITY FILING DATE: 2004-01-14
PRIORITY FILING DATE: 2004-01-14
PRIORITY FILING DATE: 2003-11-24
PRIORITY FILING DATE: 2003-11-24
PRIORITY FILING DATE: 2003-11-23
PRIORITY FILING DATE: 2003-11-23
PRIORITY FILING DATE: 2003-05-23
PRIORITY FILING DATE: 2003-05-23
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2003-02-20
PRIORITY FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 301
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc feature
LOCATION: (20)..(20)
OTHER INFORMATION: n stands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-301

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1714 CAGUACGACGACGACGACG 1732
DB      19 CAGTACGACGACGACGACGT 1

RESULT 987
US-10-919-866-302/C
Sequence 302, Application US/10919866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sitma Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
Acid (siNA)
FILE REFERENCE: 400/205 (MEHB04-183-A)
CURRENT FILING DATE: 2004-08-17
PRIORITY FILING DATE: 2004-03-11
PRIORITY FILING DATE: 2004-03-11
PRIORITY FILING DATE: 2004-05-24
PRIORITY FILING DATE: 2004-05-24
PRIORITY FILING DATE: 2004-04-16
PRIORITY FILING DATE: 2004-04-16
PRIORITY FILING DATE: 2004-01-14
PRIORITY FILING DATE: 2004-01-14
PRIORITY FILING DATE: 2003-11-24
PRIORITY FILING DATE: 2003-11-24
```


PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 302
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
NAME/KEY: misc feature
LOCATION: (20)..(20)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
US-10-919-866-302

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1715 AGUACGACGACGACAGUC 1733
Db 19 AGTACCAGACGACGACGTC 1

RESULT 988
US-10-919-866-312
Sequence 312, Application US/10919866
Publication No. US2005017664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 312
LENGTH: 21
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
NAME/KEY: misc feature
LOCATION: (1)..(1)
OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety, inverted abasic,
OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pre
FEATURE:
NAME/KEY: misc feature
LOCATION: (21)..(21)
OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety, inverted abasic,
OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pre
FEATURE:
NAME/KEY: misc feature
LOCATION: (20)..(21)
OTHER INFORMATION: n strands for thymidine
US-10-919-866-312

Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1011 GAACACACAUAGUCGUCU 1029
Db 1 GAACACACAUAGUCGUCU 19

RESULT 989
US-10-919-866-313/c
Sequence 313, Application US/10919866
Publication No. US2005017664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
FILE REFERENCE: 400/205 (MBHB04-183-A)
CURRENT APPLICATION NUMBER: US/10/919,866
CURRENT FILING DATE: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 313
LENGTH: 21
TYPE: RNA

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic
; OTHER INFORMATION: (optionally present)
US-10-919-866-313

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 5.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACAACAUGAUGCUGCU 1029
Db      19  GAACAACAUGAUGCUGCT 1

RESULT 990
US-10-919-866-314
; Sequence 314, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; FILE REFERENCE: 400/205 (MEH804-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US 10/798,090
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 314
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siRNA sense region
; FEATURE:
; NAME/KEY: misc_feature
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; LOCATION: (1)..(3)
; OTHER INFORMATION: 2'-O-Methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(6)
; OTHER INFORMATION: 2'-O-Methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(9)
; OTHER INFORMATION: 2'-O-Methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-O-Methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(14)
; OTHER INFORMATION: 2'-O-Methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(17)
; OTHER INFORMATION: 2'-O-Methyl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(4)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(7)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(16)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-314

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACAACAUGAUGCUGCU 1029
Db      1  GAACAACAUGAUGCUGCU 19

RESULT 991
US-10-919-866-315/c
; Sequence 315, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, Ivan
; APPLICANT: Richards, James
```

```

1 TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
2 TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nuclei
3 TITLE OF INVENTION: Ac1d (s1na)
4 FILE REFERENCE: 400/205 (MEH04-183-A)
5 CURRENT FILING DATE: 2004-08-17
6 PRIOR APPLICATION NUMBER: US 10/919, 866
7 PRIOR FILING DATE: 2004-03-11
8 PRIOR APPLICATION NUMBER: PCT/US04/16390
9 PRIOR FILING DATE: 2004-05-24
10 PRIOR APPLICATION NUMBER: US 10/826,966
11 PRIOR FILING DATE: 2004-04-16
12 PRIOR APPLICATION NUMBER: US 10/757,803
13 PRIOR FILING DATE: 2004-01-14
14 PRIOR APPLICATION NUMBER: US 10/720,448
15 PRIOR FILING DATE: 2003-11-24
16 PRIOR APPLICATION NUMBER: US 10/693,059
17 PRIOR FILING DATE: 2003-11-23
18 PRIOR APPLICATION NUMBER: US 10/444,853
19 PRIOR FILING DATE: 2003-05-23
20 PRIOR APPLICATION NUMBER: PCT/US03/05346
21 PRIOR FILING DATE: 2003-02-20
22 PRIOR APPLICATION NUMBER: PCT/US03/05028
23 PRIOR FILING DATE: 2003-02-20
24 PRIOR APPLICATION NUMBER: US 60/358,580
25 PRIOR FILING DATE: 2002-02-20
26 Remaining Prior Application data removed - See File Wrapper or PALM.
27 NUMBER OF SEQ ID NOS: 324
28 SOFTWARE: PatentIn version 3.3
29 SEQ ID NO 315
30 LENGTH: 21
31 TYPE: RNA
32 ORGANISM: Artificial Sequence
33 FEATURE:
34 OTHER INFORMATION: Description of Artificial Sequence: s1na antisense region
35 FEATURE:
36 NAME/KEY: misc_feature
37 LOCATION: (1)..(2)
38 OTHER INFORMATION: 2'-O-Methyl
39 FEATURE:
40 NAME/KEY: misc_feature
41 LOCATION: (4)..(5)
42 OTHER INFORMATION: 2'-O-Methyl
43 FEATURE:
44 NAME/KEY: misc_feature
45 LOCATION: (7)..(7)
46 OTHER INFORMATION: 2'-O-Methyl
47 FEATURE:
48 NAME/KEY: misc_feature
49 LOCATION: (10)..(10)
50 OTHER INFORMATION: 2'-O-Methyl
51 FEATURE:
52 NAME/KEY: misc_feature
53 LOCATION: (13)..(13)
54 OTHER INFORMATION: 2'-O-Methyl
55 FEATURE:
56 NAME/KEY: misc_feature
57 LOCATION: (16)..(16)
58 OTHER INFORMATION: 2'-O-Methyl
59 FEATURE:
60 NAME/KEY: misc_feature
61 LOCATION: (3)..(3)
62 OTHER INFORMATION: 2'-deoxy-2'-Fluoro
63 FEATURE:
64 NAME/KEY: misc_feature
65 LOCATION: (6)..(6)
66 OTHER INFORMATION: 2'-deoxy-2'-Fluoro
67 FEATURE:
68 NAME/KEY: misc_feature
69 LOCATION: (8)..(9)
70 OTHER INFORMATION: 2'-deoxy-2'-Fluoro
71 FEATURE:
72 NAME/KEY: misc_feature

```

```

LOCATION: (11) . (12)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (14) . (15)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (17) . (19)
OTHER INFORMATION: 2'-deoxy-2'-Fluoro
FEATURE:
NAME/KEY: misc feature
LOCATION: (20) - (20)
OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage
FEATURE:
NAME/KEY: misc feature
LOCATION: (20) . (21)
OTHER INFORMATION: n strands for thymidine
FEATURE:
NAME/KEY: misc feature
LOCATION: (21) . (21)
OTHER INFORMATION: 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (d
US-10-919-866-315

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 5.Le+02;
Matches 15; Conservative 4; Mismatches 0; Gaps 0;

Oy      1011 GAACACAUGAUGCUCU 1029
Db      19 GAACACATGATCTCTCT 1
|||||:::||:|:|:|
|||::|::|:|:|:|

RESULT 992
US-10-919-866-316
Sequence 316, Application US/109199866
Publication No. US20050176664A1
GENERAL INFORMATION:
APPLICANT: Sirna Therapeutics, Inc.
APPLICANT: Richards, Ivan
APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
TITLE OF INVENTION: Acid (siNA)
FILE REFERENCE: 400/205 (MEH04-183-A)
CURRENT FILING DATE: US/10/919, 866
PRIOR APPLICATION NUMBER: 2004-08-17
PRIOR APPLICATION NUMBER: US 10/798,090
PRIOR FILING DATE: 2004-03-11
PRIOR APPLICATION NUMBER: PCT/US04/16390
PRIOR FILING DATE: 2004-05-24
PRIOR APPLICATION NUMBER: US 10/826,966
PRIOR FILING DATE: 2004-04-16
PRIOR APPLICATION NUMBER: US 10/757,803
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 10/720,448
PRIOR FILING DATE: 2003-11-24
PRIOR APPLICATION NUMBER: US 10/693,059
PRIOR FILING DATE: 2003-11-23
PRIOR APPLICATION NUMBER: US 10/444,853
PRIOR FILING DATE: 2003-05-23
PRIOR APPLICATION NUMBER: PCT/US03/05346
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: PCT/US03/05028
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 324
SOFTWARE: PatentIn version 3.3
SEQ ID NO 316
LENGTH: 21
TYPE: RNA

```

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:  sinA sense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4)..(4)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(7)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (10)..(10)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(16)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: 2'-O-Methyl or 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety, inverted abasic,
; OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pres
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3' attached terminal deoxyabasic moiety, inverted abasic,
; OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pres
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n stands for thymidine
US-10-919-866-316

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACACAUGAUGUGUCU 1029
Db      1 GAACACAUGAUGUGUCU 19

RESULT 993
US-10-919-866-317/c
; Sequence 317, Application US/10919866
; Publication No. US20050176664A1
; GENERAL INFORMATION:
; APPLICANT: Sinna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Richards, Ivan
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
; TITLE OF INVENTION: Acid (siRNA)
; FILE REFERENCE: 400/205 (MEH04-183-A)
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US 10/919,866
; PRIOR FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
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; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 317
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:  sinA antisense region
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(3)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6)..(6)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(9)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (11)..(12)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide linkage
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3' attached terminal glyceryl moiety or inverted deoxyabasic (c
US-10-919-866-317

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 5.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1011 GAACACAUGAUGUGUCU 1029
Db      19 GAACACAUGAUGUGUCU 1

RESULT 994
US-10-919-866-318
; Sequence 318, Application US/10919866
; Publication No. US20050176664A1
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/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ TITLE OF INVENTION: Acid (siRNA)
/ FILE REFERENCE: 400/205 (MBHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: PCT/US03/05028
/ PRIOR FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: US 60/358,580
/ PRIOR FILING DATE: 2002-02-20
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 318
/ LENGTH: 21
/ TYPE: RNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: siRNA sense region
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(3)
/ OTHER INFORMATION: 2'-deoxy
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (5)..(6)
/ OTHER INFORMATION: 2'-deoxy
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (8)..(9)
/ OTHER INFORMATION: 2'-deoxy
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (11)..(12)
/ OTHER INFORMATION: 2'-deoxy
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (14)..(14)
/ OTHER INFORMATION: 2'-deoxy
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (14)..(14)
/ OTHER INFORMATION: 2'-deoxy
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (17)..(17)
/ OTHER INFORMATION: 2'-deoxy
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (4)..(4)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature

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/ LOCATION: (7)..(7)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (10)..(10)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (13)..(13)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (15)..(16)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (18)..(19)
/ OTHER INFORMATION: 2'-deoxy-2'-Fluoro
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety, inverted abasic,
/ OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pre
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety, inverted abasic,
/ OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pre
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (20)..(21)
/ OTHER INFORMATION: n strands for thymidine
/ US-10-919-866-318

Query Match      1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1011  GAAACAACGAUGAGCGGCU 1029
Db       1    GAAACAACGAUGAGCGGCU 19

RESULT 995
US-10-919-866-319
/ Sequence 319, Application US/10919866
/ Publication No. US20050176664A1
/ GENERAL INFORMATION:
/ APPLICANT: Sirna Therapeutics, Inc.
/ APPLICANT: Richards, Ivan
/ APPLICANT: McSwiggen, James
/ TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Cholinergic Muscarinic
/ TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
/ FILE REFERENCE: 400/205 (MBHB04-183-A)
/ CURRENT APPLICATION NUMBER: US/10/919,866
/ CURRENT FILING DATE: 2004-08-17
/ PRIOR APPLICATION NUMBER: US 10/798,090
/ PRIOR FILING DATE: 2004-03-11
/ PRIOR APPLICATION NUMBER: PCT/US04/16390
/ PRIOR FILING DATE: 2004-05-24
/ PRIOR APPLICATION NUMBER: US 10/826,966
/ PRIOR FILING DATE: 2004-04-16
/ PRIOR APPLICATION NUMBER: US 10/757,803
/ PRIOR FILING DATE: 2004-01-14
/ PRIOR APPLICATION NUMBER: US 10/720,448
/ PRIOR FILING DATE: 2003-11-24
/ PRIOR APPLICATION NUMBER: US 10/693,059
/ PRIOR FILING DATE: 2003-11-23
/ PRIOR APPLICATION NUMBER: US 10/444,853
/ PRIOR FILING DATE: 2003-05-23
/ PRIOR APPLICATION NUMBER: PCT/US03/05346
/ PRIOR FILING DATE: 2003-02-20

```

```
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 324
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 319
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: 5' to 3' sense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (4)..(4)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (7)..(7)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(10)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (13)..(13)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (15)..(15)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (18)..(18)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: 5'-3' attached terminal deoxyabasic moiety, inverted abasic,
;; OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pres
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (21)..(21)
;; OTHER INFORMATION: 3'-5' attached terminal deoxyabasic moiety, inverted abasic,
;; OTHER INFORMATION: inverted nucleotide or other terminal cap that is optionally pres
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (20)..(20)
;; OTHER INFORMATION: n stands for thymidine
US-10-919-866-319

Query Match 1.1% Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5,1e+02;
Matches 19; Conservative 0; Indels 0; Gaps 0;

QY 1011 GAACACAAUGAUGCGUCU 1029
DB 1 GAACACAAUGAUGCGUCU 19

RESULT 996
US-10-919-866-320/c
;; Sequence 320, Application US/10919866
;; Publication No. US2005017664A1
;; GENERAL INFORMATION:
;; APPLICANT: Sirna Therapeutics, Inc.
;; APPLICANT: Richards, Ivan
;; APPLICANT: MCSwigen, James
;; TITLE OF INVENTION: RNA interference Mediated Inhibition Of Cholinergic Muscarinic
;; TITLE OF INVENTION: Receptor (CHRM3) Gene Expression Using Short Interfering Nucleic
;; TITLE OF INVENTION: Acid (sinA)

;; FILE REFERENCE: 400/205 (MEH04-183-A)
;; CURRENT APPLICATION NUMBER: US/10/919,866
;; CURRENT FILING DATE: 2004-08-17
;; PRIOR APPLICATION NUMBER: US 10/798,090
;; PRIOR FILING DATE: 2004-03-11
;; PRIOR APPLICATION NUMBER: PCT/US04/16390
;; PRIOR FILING DATE: 2004-05-24
;; PRIOR APPLICATION NUMBER: US 10/826,966
;; PRIOR FILING DATE: 2004-04-16
;; PRIOR APPLICATION NUMBER: US 10/757,803
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: US 10/720,448
;; PRIOR FILING DATE: 2003-11-24
;; PRIOR APPLICATION NUMBER: US 10/693,059
;; PRIOR FILING DATE: 2003-11-23
;; PRIOR APPLICATION NUMBER: US 10/444,853
;; PRIOR FILING DATE: 2003-05-23
;; PRIOR APPLICATION NUMBER: PCT/US03/05346
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: PCT/US03/05028
;; PRIOR FILING DATE: 2003-02-20
;; PRIOR APPLICATION NUMBER: US 60/358,580
;; PRIOR FILING DATE: 2002-02-20
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 324
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 320
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: 5' to 3' antisense region
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(2)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (4)..(5)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (7)..(7)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (10)..(10)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (13)..(13)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (16)..(16)
;; OTHER INFORMATION: 2'-deoxy
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (3)..(3)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (8)..(9)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (11)..(12)
;; OTHER INFORMATION: 2'-deoxy-2'-fluoro
;; FEATURE:
```

```
; NAME/KEY: misc_feature
; LOCATION: (14)..(15)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)..(19)
; OTHER INFORMATION: 2'-deoxy-2'-Fluoro
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(21)
; OTHER INFORMATION: n strands for thymidine
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (c
US-10-919-866-320
```

```
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 78.9%; Pred. No. 5.1e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1011 GAACAACAUGAGUCGUCU 1029
DB 19 GAACAACAATGATGCTGCT 1
```

```
RESULT 997
US-10-310-914A-446812/c
; Sequence 446812, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patent version 3.3
; SEQ ID NO 446812
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-446812
```

```
Query Match 1.1%; Score 18.8; DB 1; Length 22;
Best Local Similarity 77.3%; Pred. No. 5.7e+02;
Matches 17; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1170 GGUCCUGAGAGAGCTGGGG 1191
DB 22 GGTGTCTGCGGAGAGCTGGGG 1
```

```
RESULT 998
US-10-871-137-2/c
; Sequence 2, Application US/10871137
; Publication No. US20050042689A1
; GENERAL INFORMATION:
; APPLICANT: Peck, Amnon B
; TITLE OF INVENTION: DIAGNOSING SJORGENS SYNDROME
; FILE REFERENCE: 5853-169
; CURRENT APPLICATION NUMBER: US/10/871,137
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 60/479,545
; PRIOR FILING DATE: 2003-06-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent version 3.3
```

```
; SEQ ID NO 2
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: reverse PCR primer
; LOCATION: (1)..(18)
US-10-871-137-2
```

```
Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 4.8e+02;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1753 GCACCCGAGCAGGCCUUG 1770
DB 18 GCACCCGAGCAGGCCCTTG 1
```

```
RESULT 999
US-11-083-784-97104
; Sequence 97104, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97104
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97104
```

```
Query Match 1.0%; Score 18; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 306 CACACACUACUCCUCCU 323
DB 1 CACACACUACUCCUCCU 18
```

```
RESULT 1000
US-11-101-244-97104
; Sequence 97104, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

```

; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97104
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97104

```

```

Query Match      1.0%; Score 18; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      306 CACACACUACUCCUCCU 323
Db      1 CACACACUACUCCUCCU 18

```

```

RESULT 1001
US-10-280-183A-364
; Sequence 364, Application US/10280183A
; Publication No. US20040081964A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer Inc.
; APPLICANT: Bachmanov, Alexander A
; APPLICANT: Beauchamp, Gary K.
; APPLICANT: Chatterjee, Anubindo
; APPLICANT: De Jong, Pieter J.
; APPLICANT: Li, Shanru
; APPLICANT: Li, Xia
; APPLICANT: Ohmen, Jeffrey D
; APPLICANT: Reed, Danielle R.
; APPLICANT: Ross, David
; APPLICANT: Tordoff, Michael G.
; TITLE OF INVENTION: GENE AND SEQUENCE VARIATION ASSOCIATED WITH SENSING
; FILE REFERENCE: PC18306A
; CURRENT APPLICATION NUMBER: US/10/280,183A
; PRIOR FILING DATE: 2002-10-25
; PRIOR APPLICATION NUMBER: 60/200,794
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 652
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 364
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Mouse
US-10-280-183A-364

```

```

Query Match      1.0%; Score 18; DB 1; Length 20;
Best Local Similarity 83.3%; Pred. No. 5.7e+02;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1335 CUCAGUGGUAAGACAC 1352
Db      2 CTCAGTGGTGAAGACAC 19

```

```

RESULT 1002
US-10-310-914A-1189557/C
; Sequence 1189557, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; PRIOR FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3

```

```

; SEQ ID NO 1189557
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1189557

```

```

Query Match      1.0%; Score 17.8; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 6.4e+02;
Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      53 CCUCUGGUAAGACACCCCU 73
Db      21 CTCCTGGCTGCACAGCCCT 1

```

```

RESULT 1003
US-10-310-914A-1352943/C
; Sequence 1352943, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; PRIOR FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1352943
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1352943

```

```

Query Match      1.0%; Score 17.8; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 6.4e+02;
Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      53 CCUCUGGUAAGACACCCCU 73
Db      21 CTCCTGGCTGCACAGCCCT 1

```

```

RESULT 1004
US-10-042-865-234
; Sequence 234, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangoli, Beba A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patutajan, Meera
; APPLICANT: Vermet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tcherenev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grosse, William M
; APPLICANT: Alsbrook II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Baringer, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Elletman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyanakar, Uriel M

```



```
; APPLICANT: Millet, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCES: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; CURRENT FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 234
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
US-10-042-865-234
```

```
Query Match
Best Local Similarity 1.0%; Score 17.8; DB 1; Length 22;
Matches 13; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

QY 1558 UGCAUACCCGAAACCTUUGG 1578

Db 2 TACATAGCCAAACCTTTGG 22

```
RESULT 1005
US-10-310-914A-118955/c
; Sequence 118955, Application US/10310914A
; Publication No. US2006000332A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1189555
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1189555
```

```
Query Match
Best Local Similarity 1.0%; Score 17.8; DB 1; Length 22;
Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

QY 53 CCUCUGAUAACAGCCCCU 73

Db 22 CCTCTGCTGCACAGCCCT 2

```
RESULT 1006
US-10-310-914A-1352927/c
; Sequence 1352927, Application US/10310914A
; Publication No. US2006000332A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCES: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1352927
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1352927
```

```
Query Match
Best Local Similarity 1.0%; Score 17.8; DB 1; Length 22;
Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

QY 53 CCUCUGAUAACAGCCCCU 73

Db 22 CCTCTGCTGCACAGCCCT 2

```
RESULT 1007
US-11-083-784-14354
; Sequence 14354, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14354
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-14354
```

```
Query Match
Best Local Similarity 1.0%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 1456 GAGAGAAAGCGGCCAGA 1474

Db 1 GAGAGAAAGCGGCCAGA 19

```
RESULT 1008
US-11-083-784-96787
; Sequence 96787, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 1349US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96787

Query Match      1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1586 GCUACUGCGUCGUCACAU 1604
Db      1 GCUACUGCGUCGUCACGU 19

RESULT 1009
US-11-083-784-96842
; Sequence 96842, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 1349US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96842
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96842

Query Match      1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      453 CAGCAUGCGUCGUCGUUAG 471
Db      1 CAGCAUGCGUCGUCGUUAG 19

RESULT 1010
US-11-083-784-96860
; Sequence 96860, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 1349US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96860
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96860

Query Match      1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      454 AGCAUCCGUCGUCGUUAGA 472
Db      1 AGCAUCCGUCGUCGUUAGA 19

RESULT 1011
US-11-083-784-96866
; Sequence 96866, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 1349US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96866
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96866

Query Match      1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      455 GCAUCCGUCGUCGUUAGA 473
Db      1 GCAUCCGUCGUCGUUAGA 19

RESULT 1012
US-11-083-784-96897
; Sequence 96897, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96897
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96897

Query Match
Best Local Similarity 1.0%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 482 UCAUCCGCTTUGACAGUA 500
DB 1 UCAUCCGCTTUGACAGUA 19
```

```

RESULT 1013
US-11-083-784-97147
; Sequence 97147, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97147
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97147
```

```

Query Match
Best Local Similarity 1.0%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 300 GACGGUCAACACUACUUC 318
DB 1 GACGGUCAACACUACUUC 19
```

```

; Sequence 574416, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 574416
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-574416

Query Match
Best Local Similarity 1.0%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1178 AGGAGGAGCUGGAGUGU 1196
DB 1 AGGAGGAGCUGGAGUGU 19
```

```

RESULT 1015
US-11-083-784-738029
; Sequence 738029, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 738029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-738029
```

```

Query Match
Best Local Similarity 1.0%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 816 GACAGAGGAGAGAGAGAA 834
DB 1 GACAGAGGAGAGAGAGAA 19
```

```
RESULT 1016
US-11-083-784-819276
; Sequence 819276, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 819276
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-819276
```

```
Query Match          1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      815 GGACGAGCGCAGACAGA 833
DB      1 GGACGAGCGACAGACAGA 19

RESULT 1017
US-11-101-244-14354
; Sequence 14354, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14354
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14354
```

```
Query Match          1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1456 GAGAGAAAGCGGCCAGA 1474
DB      1 GAGAGAAAGCGGCCAGA 19
```

```
RESULT 1018
US-11-101-244-96787
; Sequence 96787, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96787
```

```
Query Match          1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1586 GCUACUGCGUGGCUACAU 1604
DB      1 GCUACUGCGUGGCUACGU 19

RESULT 1019
US-11-101-244-96842
; Sequence 96842, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96842
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96842
```

```
Query Match          1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      453 CAGCAUGGCTUCGUUANG 471
DB      1 CAGCAUGGCTUCGUAUG 19
```

RESULT 1020

US-11-101-244-96860
; Sequence 96860, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96860
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96860

Query Match 1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 454 AGCAUGCCUCUGUUAUGA 472

Db 1 AGCAUGCCUCAGUUAUGA 19

RESULT 1021

US-11-101-244-96866
; Sequence 96866, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96866
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96866

Query Match 1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 455 GCAUGCCUCUGUUAUGA 473

Db 1 GCAUGCCUCAGUUAUGA 19

RESULT 1022

US-11-101-244-96897
; Sequence 96897, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96897
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96897

Query Match 1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 482 UCAUCAGCUCUUGACAGUA 500

Db 1 UCAUCAGCUCUUGACAGUA 19

RESULT 1023

US-11-101-244-97147
; Sequence 97147, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97147
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97147

Query Match 1.0%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 300 GACGUCACACACUACUUC 318

Db 1 GACGUCACACACUACUUC 19

RESULT 1024

```
US-11-101-244-574416
; Sequence 574416, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 574416
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-574416

Query Match
Best Local Similarity 94.7%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1178 AGGAGGAGCUGGGGAGUGU 1196
DB 1 AGGAGGAGCUGGGGAGUGU 19

RESULT 1025
US-11-101-244-738029
; Sequence 738029, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 738029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-738029

Query Match
Best Local Similarity 1.0%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 816 GACAGAGCGACAGACAGAA 834
DB 1 GACAGAGCGACAGACAGAA 19

RESULT 1026
US-11-101-244-819276

; Sequence 819276, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 819276
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-819276

Query Match
Best Local Similarity 94.7%; Score 17.4; DB 1; Length 19;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 815 GGACAGAGCGACAGACAGA 833
DB 1 GGACAGAGCGACAGACAGA 19

RESULT 1027
US-10-310-914A-886273
; Sequence 886273, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyuaz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; PRIOR FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 886273
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-886273

Query Match
Best Local Similarity 1.0%; Score 17.4; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1687 UGUGACAAAAAAGAGGC 1705
DB 1 UGUGACAAAAAAGAGGC 19

RESULT 1028
US-10-310-914A-1387018/c
; Sequence 1387018, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyuaz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
```

;; CURRENT APPLICATION NUMBER: US/10/310,914A
;; CURRENT FILING DATE: 2002-12-06
;; NUMBER OF SEQ ID NOS: 138402
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO: 1387018
;; LENGTH: 20
;; TYPE: RNA
;; ORGANISM: Human
US-10-310-914A-1387018

Query Match
Best Local Similarity 68.4%; Score 17.4; DB 1; Length 20;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1657 ACCACUUCAGAGCUGC 1675
DB 20 ACCACUUCAGAGCUGC 2

RESULT 1029
US-11-041-456-14/C
;; Sequence 14, Application US/11041456
;; Publication No. US20050287549A1
;; GENERAL INFORMATION:
;; APPLICANT: HITACHI, LTD
;; TITLE OF INVENTION: Method of genetic testing
;; FILE REFERENCE: 310400293US01
;; CURRENT APPLICATION NUMBER: US/11/041,456
;; CURRENT FILING DATE: 2005-01-25
;; PRIOR APPLICATION NUMBER: JP 2004-191781
;; PRIOR FILING DATE: 2004-06-29
;; NUMBER OF SEQ ID NOS: 38
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO: 14
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA (primer)
US-11-041-456-14

Query Match
Best Local Similarity 73.7%; Score 17.4; DB 1; Length 20;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 239 AGACGGUCACAAACUACU 317
DB 19 AGACGGUCACAAACUACU 1

RESULT 1030
US-10-770-726-20980/C
;; Sequence 20980, Application US/10770726
;; Publication No. US20050266409A1
;; GENERAL INFORMATION:
;; APPLICANT: Wyeth
;; APPLICANT: Brown, Eugene
;; APPLICANT: Liu, Wei
;; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
;; TITLE OF INVENTION: CANCERS
;; FILE REFERENCE: AM101079 (031896-010000)
;; CURRENT APPLICATION NUMBER: US/10/770,726
;; CURRENT FILING DATE: 2004-02-04
;; NUMBER OF SEQ ID NOS: 48640
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO: 20980
;; LENGTH: 21
;; TYPE: RNA
;; ORGANISM: RNA1
US-10-770-726-20980

Query Match
Best Local Similarity 89.5%; Score 17.4; DB 1; Length 21;
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 902 AACGUCCACAGAGGAA 920
DB 19 AACGUCCACAGAGGAA 1

RESULT 1031
US-10-676-154-105/C
;; Sequence 105, Application US/10676154
;; Publication No. US20040081996A1
;; GENERAL INFORMATION:
;; APPLICANT: John Landers
;; APPLICANT: David Houseman
;; APPLICANT: Barbara Jordan
;; APPLICANT: Alain Charest
;; TITLE OF INVENTION: Methods and Products Related to
;; TITLE OF INVENTION: Genotyping and DNA Analysis
;; FILE REFERENCE: M0656/7045(HCL/MAT)
;; CURRENT APPLICATION NUMBER: US/10/676,154
;; CURRENT FILING DATE: 2003-09-29
;; PRIOR APPLICATION NUMBER: US 60/101,757
;; PRIOR FILING DATE: 1998-09-25
;; PRIOR APPLICATION NUMBER: PCT/US99/22283
;; PRIOR FILING DATE: 1999-09-24
;; NUMBER OF SEQ ID NOS: 691
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO: 105
;; LENGTH: 17
;; TYPE: DNA
;; ORGANISM: Homo Sapiens
US-10-676-154-105

Query Match
Best Local Similarity 64.7%; Score 17; DB 1; Length 17;
Matches 11; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1567 AAAACCUUGGAAUCU 1583
DB 17 AAAACCUUGGAAUCU 1

RESULT 1032
US-10-310-914A-1356690/C
;; Sequence 1356690, Application US/10310914A
;; Publication No. US20060003322A1
;; GENERAL INFORMATION:
;; APPLICANT: Bentwich, Isaac
;; APPLICANT: Shiller, Kiyazat
;; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
;; TITLE OF INVENTION: uses thereof
;; FILE REFERENCE: 06087.0200 CPUS01
;; CURRENT APPLICATION NUMBER: US/10/310,914A
;; CURRENT FILING DATE: 2002-12-06
;; NUMBER OF SEQ ID NOS: 138402
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO: 1356690
;; LENGTH: 20
;; TYPE: RNA
;; ORGANISM: Human
US-10-310-914A-1356690

Query Match
Best Local Similarity 88.2%; Score 17; DB 1; Length 20;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1175 CUGAGAGGAGCUGGGG 1191
DB 20 CUGAGAGGAGCUGGGG 4

RESULT 1033
US-09-922-146-21

```
; Sequence 21, Application US/09922146
; Publication No. US20030083285A1
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowser
; APPLICANT: Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF DNL SPECIFIC PHOSPHATASE 9 EXPRESSION
; FILE REFERENCE: RTS-0252
; CURRENT APPLICATION NUMBER: US/09/922,146
; CURRENT FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 48
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-922-146-21

Query Match
Best Local Similarity 0.9%; Score 16.8; DB 1; Length 20;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1464 AGCGGCCAGACCCTTCATG 1483
Db 1 AGCGGCCAGACCCTTCATG 20

RESULT 1034
US-10-310-914A-34916
; Sequence 34916, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyazac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34916
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-34916

Query Match
Best Local Similarity 0.9%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 864 AAGCUGACGACGUAAGGAAC 883
Db 1 AAGCUGACGACGUAAGGAAC 20

RESULT 1035
US-10-310-914A-44757
; Sequence 44757, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyazac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44757
; LENGTH: 20
; TYPE: RNA

; ORGANISM: Human
US-10-310-914A-44757
Query Match
Best Local Similarity 0.9%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 813 UGGACAGAGCGACGACGAG 832
Db 1 UGGACAGAGCGACGACGAG 20

RESULT 1036
US-10-310-914A-85996/C
; Sequence 85996, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyazac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 85996
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-85996

Query Match
Best Local Similarity 0.9%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 814 GGGACAGAGCGACGACGACA 833
Db 20 GGGACAGAGCGACGACGACA 1

RESULT 1037
US-10-310-914A-205405
; Sequence 205405, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyazac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 205405
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-205405

Query Match
Best Local Similarity 0.9%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1681 UGCCAGUGGACCAAAAAA 1700
Db 1 UGCCAUGUGGCAAAAAA 20

RESULT 1038
US-10-310-914A-706110/C
; Sequence 706110, Application US/10310914A
```



```
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shlier, Kvuazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 706110
/ LENGTH: 20
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-706110

Query Match
Best Local Similarity 75.0%; Score 16.8; DB 1; Length 20;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 53 CCUCUGGAGNACAGGCC 72
DB 20 CCTCTGATCCACAGCCAC 1

RESULT 1039
US-10-310-914A-740270
/ Sequence 740270, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shlier, Kvuazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 740270
/ LENGTH: 20
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-740270

Query Match
Best Local Similarity 90.0%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 814 GGGACAGGCGCAGACAGA 833
DB 1 GGCACAGGCGCAGACAGA 20

RESULT 1040
US-10-310-914A-886771
/ Sequence 886771, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shlier, Kvuazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 886771
/ LENGTH: 20
/ TYPE: RNA
/ ORGANISM: Human
```

```
US-10-310-914A-886771

Query Match
Best Local Similarity 90.0%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1622 CCGUGGCUAUGCUCUGGC 1641
DB 1 CCCUGGCUAUGCUCUGGC 20

RESULT 1041
US-10-310-914A-1225898
/ Sequence 1225898, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shlier, Kvuazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1225898
/ LENGTH: 20
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-1225898

Query Match
Best Local Similarity 90.0%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1567 AAAACCUUUGAUAUCUGG 1586
DB 1 AAAACCAUUGAUAUCUGG 20

RESULT 1042
US-09-944-326-2/c
/ Sequence 2, Application US/09944326
/ Patent No. US20020128220A1
/ GENERAL INFORMATION:
/ APPLICANT: Gleave, Martin
/ APPLICANT: Rennie, Paul S.
/ APPLICANT: Miyake, Hideaki
/ APPLICANT: Nelson, Colleen
/ TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY
/ FILE REFERENCE: UBC-P-020-2
/ CURRENT APPLICATION NUMBER: US/09/944,326
/ CURRENT FILING DATE: 2001-08-30
/ PRIOR APPLICATION NUMBER: 60/121,726
/ PRIOR FILING DATE: 1999-02-26
/ PRIOR APPLICATION NUMBER: 09/913,325
/ PRIOR FILING DATE: 2001-08-10
/ NUMBER OF SEQ ID NOS: 14
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 21
/ TYPE: DNA
/ ORGANISM: Murine
/ FEATURE:
/ OTHER INFORMATION: mismatch control
US-09-944-326-2

Query Match
Best Local Similarity 60.0%; Score 16.8; DB 1; Length 21;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1664 UCAAGUUGCUGCUGGUC 1683
```

Db 20 TGAAGATCTGCTGTGTGC 1

```
RESULT 1043
US-09-967-726A-2/c
; Sequence 2, Application US/09967726A
; Publication No. US20030158130A1
; GENERAL INFORMATION:
; APPLICANT: Gleave, Martin
; APPLICANT: Rennie, Paul S.
; APPLICANT: Miyake, Hideaki
; APPLICANT: Nelson, Colleen
; APPLICANT: Zellweger, Tobias
; TITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
; FILE REFERENCE: UBC.P-022
; CURRENT APPLICATION NUMBER: US/09/967,726A
; CURRENT FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 21
; TYPE: DNA
; ORGANISM: human
US-09-967-726A-2
```

Query Match 0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 60.0%; Pred. No. 7.8e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 1664 UCAAGUCGUCGUCGUCG 1683

Db 20 TGAAGATCTGCTGTGTGC 1

```
RESULT 1044
US-10-080-794-2/c
; Sequence 2, Application US/10080794
; Publication No. US20030166591A1
; GENERAL INFORMATION:
; APPLICANT: Gleave, Martin
; APPLICANT: Rennie, Paul S.
; APPLICANT: Miyake, Hideaki
; APPLICANT: Nelson, Colleen
; APPLICANT: Womla, Brett P.
; TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
; FILE REFERENCE: UBC.P-020-3
; CURRENT APPLICATION NUMBER: US/10/080,794
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/121,726
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 09/913,325
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 09/944,326
; PRIOR FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Murine
; OTHER INFORMATION: mismatch control
US-10-080-794-2
```

Query Match 0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 60.0%; Pred. No. 7.8e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 1664 UCAAGUCGUCGUCGUCG 1683

Db 20 TGAAGATCTGCTGTGTGC 1

```
RESULT 1045
US-10-786-720-8032/c
; Sequence 8032, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8032
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-786-720-8032
```

Query Match 0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 40.0%; Pred. No. 7.8e+02;
Matches 8; Conservative 10; Mismatches 2; Indels 0; Gaps 0;

Qy 614 UGUUCUGCAUACUUGUU 633

Db 21 TGTTCGTGCTACTTGTGTT 2

```
RESULT 1046
US-10-786-720-8034
; Sequence 8034, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8034
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-antisense strand
US-10-786-720-8034
```

Query Match 0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 7.8e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 614 UGUUCUGCAUACUUGUU 633

Db 1 UGUUCUGCAUACUUGUU 20

```
RESULT 1047
US-10-786-720-10264/c
; Sequence 10264, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; FILE REFERENCE: 031896-023000 (AM101331L)
```

```
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10264
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-786-720-10264
```

```
Query Match          0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 40.0%; Pred. No. 7.8e+02;
Matches 8; Conservative 10; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      614 UGUUCUGGCAUACUUGUU 633
      :|::|||::|::|::|::|::|
Db      21 TGTTCGTCTACTTCTTGT 2
```

```
RESULT 1048
US-10-786-720-10266
; Sequence 10266, Application US/10786720
; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101311)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10266
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-antisense strand
US-10-786-720-10266
```

```
Query Match          0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 7.8e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      614 UGUUCUGGCAUACUUGUU 633
      |||||::|::|::|::|::|
Db      1 UGUUCUGUACUUCUUUGU 20
```

```
RESULT 1049
US-10-828-394-3/c
; Sequence 3, Application US/10828394
; Publication No. US20040220131A1
; GENERAL INFORMATION:
; APPLICANT: Jackson, John
; APPLICANT: Burt, Helen
; APPLICANT: Springate, Christopher
; APPLICANT: Gleave, Martin
; TITLE OF INVENTION: Method for Treatment of Cancerous Angiogenic Disorders
; FILE REFERENCE: UBC.P-033
; CURRENT APPLICATION NUMBER: US/10/828,394
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 60/464,159
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 21
; TYPE: DNA
; ORGANISM: human
US-10-828-394-3
```

```
Query Match          0.9%; Score 16.8; DB 1; Length 21;
```

```
Best Local Similarity 60.0%; Pred. No. 7.8e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
QY      1664 UCAAGAGCUGCUGCUGC 1683
      :|::|||::|::|::|::|
Db      20 TGAAGATCTGCTGCTGTC 1
```

```
RESULT 1050
US-10-828-395-3/c
; Sequence 3, Application US/10828395
; Publication No. US20040224914A1
; GENERAL INFORMATION:
; APPLICANT: Jackson, John
; APPLICANT: Burt, Helen
; APPLICANT: Springate, Christopher
; APPLICANT: Gleave, Martin
; TITLE OF INVENTION: Method for Treatment of Angiogenic Disorders
; FILE REFERENCE: UBC.P-032
; CURRENT APPLICATION NUMBER: US/10/828,395
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 60/464,159
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: US 60/464,160
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 21
; TYPE: DNA
; ORGANISM: human
US-10-828-395-3
```

```
Query Match          0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 60.0%; Pred. No. 7.8e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1664 UCAAGAGCUGCUGCUGC 1683
      :|::|||::|::|::|::|
Db      20 TGAAGATCTGCTGCTGTC 1
```

```
RESULT 1051
US-10-770-726-373
; Sequence 373, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; CURRENT FILING DATE: 2004-02-04
; NUMBER OF SEQ ID NOS: 48640
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 373
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi
US-10-770-726-373
```

```
Query Match          0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 7.8e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      632 UUGGAAAGAGACUGUGCCU 651
      |||||::|::|::|::|::|
Db      1 UUGGAAAGAGACUGUGCCU 20
```

```
RESULT 1052
```

```
US-10-770-726-2392
; Sequence 2392, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; CURRENT FILING DATE: 2004-02-04
; NUMBER OF SEQ ID NOS: 48640
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2392
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi
US-10-770-726-2392

Query Match
Best Local Similarity 90.0%; DB 1; Length 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 632 UUGGAAAGAGACUUGCCU 651
DB 2 UUGGAAAGAGACUUGCCU 21

RESULT 1053
US-10-770-726-23694/C
; Sequence 23694, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; CURRENT FILING DATE: 2004-02-04
; NUMBER OF SEQ ID NOS: 48640
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 23694
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi
US-10-770-726-23694

Query Match
Best Local Similarity 75.0%; DB 1; Length 21;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1162 AACUCGAGGUGCCUGAGA 1181
DB 20 AACUCGAGGUGCCUGAGA 1

RESULT 1054
US-10-310-914A-70833
; Sequence 70833, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 70833
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-70833

Query Match
Best Local Similarity 90.0%; DB 1; Length 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 534 CAACGACACACAAAGAGAG 553
DB 2 CAACGACACACAAAGAGAG 21

RESULT 1055
US-10-310-914A-146082
; Sequence 146082, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 146082
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-146082

Query Match
Best Local Similarity 90.0%; DB 1; Length 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 815 GGACAGAGGCGAAGACAGAA 834
DB 2 GGACAGAGGCGAAGACAGAA 21

RESULT 1056
US-10-310-914A-146083
; Sequence 146083, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 146083
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-146083

Query Match
Best Local Similarity 90.0%; DB 1; Length 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 815 GGACAGAGGCGAAGACAGAA 834
DB 2 GGACAGAGGCGAAGACAGAA 21
```

```
RESULT 1057
US-10-310-914A-526663
; Sequence 526663, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 526663
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-526663

Query Match
Best Local Similarity 90.0%; Score 16.8; DB 1; Length 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 575 CUUGGUCACUCCUUCUUGGC 594
Db 1 CUUGGCGCAUCCUUCUUGGC 20

RESULT 1058
US-10-310-914A-886986
; Sequence 886986, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 886986
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-886986

Query Match
Best Local Similarity 90.0%; Score 16.8; DB 1; Length 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 144 UUUUCUCCUCCAGCAGGUA 163
Db 2 UUUUCUCCUCCAGCAGGUA 21

RESULT 1059
US-11-183-485-2/c
; Sequence 2, Application US/1183485
; Publication No. US20060029636A1
; GENERAL INFORMATION:
; APPLICANT: Hendriks, Marc
; TITLE OF INVENTION: MEDICAL DEVICES AND METHODS FOR REDUCING LOCALIZED FIBROSIS
; FILE REFERENCE: 134.02140101
; CURRENT FILING DATE: 2005-07-18
; PRIOR APPLICATION NUMBER: 60/589,700
; PRIOR FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
```

```
; LENGTH: 21
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: Small interfering RNA in which bases 1-19 are ribonucleic acids,
; US-11-183-485-2

Query Match
Best Local Similarity 75.0%; Score 16.8; DB 1; Length 21;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1441 AUGUCCUGGUCAGAGGAA 1460
Db 20 AGGTCCTTGCTCAAGAGAA 1

RESULT 1060
US-11-183-486-2/c
; Sequence 2, Application US/1183486
; Publication No. US20060030538A1
; GENERAL INFORMATION:
; APPLICANT: Hendriks, Marc
; TITLE OF INVENTION: METHODS FOR REDUCING OR PREVENTING LOCALIZED FIBROSIS USING siRNA
; FILE REFERENCE: 134.02280101
; CURRENT FILING DATE: 2005-07-18
; PRIOR APPLICATION NUMBER: 60/589,724
; PRIOR FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 21
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: Small interfering RNA in which bases 1-19 are ribonucleic acids,
; US-11-183-486-2

Query Match
Best Local Similarity 75.0%; Score 16.8; DB 1; Length 21;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1441 AUGUCCUGGUCAGAGGAA 1460
Db 20 AGGTCCTTGCTCAAGAGAA 1

RESULT 1061
US-10-310-914A-85413
; Sequence 85413, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 85413
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-85413

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 18;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

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OY      131 GAGCAGCGGCAUUCU 148
        ||| ||||| ||||| |||||
DB       1 GAGAAGCTGGCAUUCU 18

RESULT 1062
US-10-310-914A--598921/c
; Sequence 598921, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 598921
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A--598921

Query Match          0.9%; Score 16.4; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 6.6e+02;
Matches 10; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

OY      1357 ACUCUACCCUCUGCCUUC 1374
        ||| : ||| : ||| : |||
DB       18 ACTCTTCTCTGTCTTC 1

RESULT 1063
US-10-310-914A--886257
; Sequence 886257, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 886257
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A--886257

Query Match          0.9%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 6.6e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1688 GUGACAAATAAAAAAGGC 1705
        ||| ||||| ||||| |||||
DB       1 GUGACAAAATAAAAAAGGC 18

RESULT 1064
US-10-310-914A--1202840/c
; Sequence 1202840, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01

```

Query Match	Best Local Similarity	94.4%;	Pred. No. 6.6e+02;	Matches	17;	Conservative	0;	Mismatches	1;	Indels	0;	Gaps	0;
CURRENT APPLICATION NUMBER: US/10/310,914A													
CURRENT FILING DATE: 2002-12-06													
NUMBER OF SEQ ID NOS: 1388402													
SOFTWARE: PatentIn version 3.3													
SEQ ID NO 1202840													
LENGTH: 18													
TYPE: RNA													
ORGANISM: Human													
US-10-310-914A-1202840													
Oy	814	GGGACAGAGCGACAGACA	831										
Db	18	GGGACAGAGCGACAGACA	1										
RESULT 1065													
US-10-310-914A-886252													
Sequence 886252, Application US/10310914A													
Publication No. US20060003322A1													
GENERAL INFORMATION:													
APPLICANT: Bentwich, Isaac													
APPLICANT: Shlier, Kyuzat													
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and													
TITLE OF INVENTION: uses thereof													
FILE REFERENCE: 06087,0200.CPUS01													
CURRENT APPLICATION NUMBER: US/10/310,914A													
CURRENT FILING DATE: 2002-12-06													
NUMBER OF SEQ ID NOS: 1388402													
SOFTWARE: PatentIn version 3.3													
SEQ ID NO 886252													
LENGTH: 19													
TYPE: RNA													
ORGANISM: Human													
US-10-310-914A-886252													
Query Match	Best Local Similarity	0.9%;	Score 16.4;	DB 1;	Length 19;								
Best Local Similarity 94.4%; Pred. No. 7.2e+02;													
Matches	17;	Conservative	0;	Mismatches	1;	Indels	0;	Gaps	0;				
Oy	1687	UCUGACAAAGAGAGG	1704										
Db	2	UGUGACAAAGAGG	19										
RESULT 1066													
US-10-310-914A-891339/C													
Sequence 891339, Application US/10310914A													
Publication No. US20060003322A1													
GENERAL INFORMATION:													
APPLICANT: Bentwich, Isaac													
APPLICANT: Shlier, Kyuzat													
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and													
TITLE OF INVENTION: uses thereof													
FILE REFERENCE: 06087,0200.CPUS01													
CURRENT APPLICATION NUMBER: US/10/310,914A													
CURRENT FILING DATE: 2002-12-06													
NUMBER OF SEQ ID NOS: 1388402													
SOFTWARE: PatentIn version 3.3													
SEQ ID NO 891339													
LENGTH: 19													
TYPE: RNA													
ORGANISM: Human													
US-10-310-914A-891339													
Query Match	Best Local Similarity	0.9%;	Score 16.4;	DB 1;	Length 19;								
Best Local Similarity 72.2%; Pred. No. 7.2e+02;													
Matches	13;	Conservative	4;	Mismatches	1;	Indels	0;	Gaps	0;				
Oy	171	UGACCCUCUGGAGGUGCA	188										

Db 18 TGFCCCTCTGGAGAGTCA 1

RESULT 1067
US-10-310-914A-983423
; Sequence 983423, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 983423
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-983423

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 816 GACAGGCGAGAGACAGA 833
Db 2 GGCAGAGGAGAGACAGA 19

RESULT 1068
US-11-083-784-14345
; Sequence 14345, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14345
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-14345

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1458 GAAGAAAGCGCCAGAC 1475
Db 1 GAAGAAAGCGCCAGAC 18

RESULT 1069
US-11-083-784-14512

; Sequence 14512, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14512
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-14512

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1455 GGAGAAAGCGGCCCA 1472
Db 1 GGAGAAAGCGGCCCA 18

RESULT 1070
US-11-083-784-14599
; Sequence 14599, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14599
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-14599

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1455 GGAGAAAGCGGCCCA 1472
Db 1 GGAGAAAGCGGCCCA 18

RESULT 1071
US-11-083-784-14678
; Sequence 14678, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14678
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-14678

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1455 GGAGAAAGAAAGCGCCCA 1472
Db 1 GGAGAAAGAAAGCGCCCA 18

RESULT 1072
US-11-083-784-14753
; Sequence 14753, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14753
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-14753

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1455 GGAGAAAGAAAGCGCCCA 1472

Db 1 GGAGAAAGAAAGCGCCCA 18

RESULT 1073
US-11-083-784-82206/C
; Sequence 82206, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 82206
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-82206

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 7.2e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

OY 616 UUCUGGCANUACUUCGU 633
Db 19 TTCTGGCAATGCTTGT 2

RESULT 1074
US-11-083-784-82258/C
; Sequence 82258, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 82258
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-82258

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 7.2e+02;

Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;
QY 616 UUCUGCAUACUUGUU 633
Db 18 TTCTGGCAATGCTTGT 1

RESULT 1075
US-11-083-784-246660
; Sequence 246660, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 246660
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-246660

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 285 CAACAAGCAGCTGAGAC 302
Db 2 CAACAAGCAGAGAGAC 19

RESULT 1076
US-11-083-784-498576
; Sequence 498576, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 498576
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498576

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 774 UGAAAAGCGUACCAAGA 791
Db 2 UGAAAAGCGUACCAAGA 19

RESULT 1077
US-11-083-784-498676
; Sequence 498676, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 498676
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498676

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 774 UGAAAAGCGUACCAAGA 791
Db 2 UGAAAAGCGUACCAAGA 19

RESULT 1078
US-11-083-784-498775
; Sequence 498775, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 498775
; LENGTH: 19

```
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498775

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 774 UGAAAAAGCGUACCAAGA 791
Db 2 UGAAAAAGCGUACCAAGA 19

RESULT 1079
US-11-083-784-588102/c
; Sequence 588102, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 588102
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-588102

Query Match
Best Local Similarity 0.9%; Score 16.4; DB 1; Length 19;
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 106 CAUUCGCGAGCUACAUA 123
Db 19 CATTTCGCGACGCTTCAAT 2

RESULT 1080
US-11-083-784-688861
; Sequence 688861, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary
; SEQ ID NO 688861
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-688861

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 816 GACAGAGCGAGACAGAGA 833
Db 2 GACAGAGCGAGACAGAGA 19

RESULT 1082
US-11-083-784-829653/c
; Sequence 829653, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

```

; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 829653
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-829653

```

```

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 77.8%; Pred. No. 7.2e+02;
Matches 14; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1043 ACUCGCGCUCUCCGACG 1060
Db      18 ACTCCTCTCTCTCCGACG 1

```

RESULT 1083

```

US-11-083-784-875701
; Sequence 875701, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 875701
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-875701

```

```

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      414 CUCGCGCUCUCCGACUCUG 431
Db      1 CUGAGCUCUGACUCUCUG 18

```

RESULT 1084

```

US-11-083-784-923326
; Sequence 923326, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333

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```

; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 923326
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-923326

```

```

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1218 CAAGCUGAGCGCCAGAA 1235
Db      1 CAAGCUGAGCGCCAGAA 18

```

RESULT 1085

```

US-11-083-784-982420
; Sequence 982420, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 982420
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-982420

```

```

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      860 CUCGAGCUGCAGCAGU 877
Db      2 CUCGAGCUGAGCAGU 19

```

RESULT 1086

```

US-11-083-784-1083345
; Sequence 1083345, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US

```

```
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1083345
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1083345

Query Match
Best Local Similarity 0.9%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1407 GAAGACCGAGAGUCAGAU 1424
Db 1 GAAGACCGAGAGUCAGAU 18

RESULT 1087
US-11-083-784-1216237
/ Sequence 1216237, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1216237
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1216237

Query Match
Best Local Similarity 0.9%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 22 ACAACCCGCCUUCUUUU 39
Db 2 AUAACCCGCCUUCUUUU 19

RESULT 1088
US-11-083-784-1308145/c
/ Sequence 1308145, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
```

```
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1308145
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1308145

Query Match
Best Local Similarity 0.9%; Score 16.4; DB 1; Length 19;
Matches 10; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 575 CUUGGCAUCCUUCUUUG 592
Db 18 CTTGGGCACTCTCTTGG 1

RESULT 1089
US-11-083-784-1422064/c
/ Sequence 1422064, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1422064
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1422064

Query Match
Best Local Similarity 0.9%; Score 16.4; DB 1; Length 19;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 616 UUCUGGCAUCCUUCUUUG 633
Db 19 TTCTGGCACTCTTGT 2

RESULT 1090
US-11-083-784-1422087/c
/ Sequence 1422087, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1422087
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1422087
```

```
Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 7.2e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      616 UUCUGCAUACUUGU 633
Db      18 TTCTGGGAACTTCTT 1
```

```
RESULT 1091
US-11-101-244-14345
; Sequence 14345, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14345
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14345
```

```
Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1458 GAAGAAGCGGCCGAC 1475
Db      1 GAAGAAGCGGCCGAC 18
```

```
RESULT 1092
US-11-101-244-14512
; Sequence 14512, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
```

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14512
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14512
```

```
Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1455 GGAGAAGAAAGCGGCCA 1472
Db      1 GGAGAAGAAAGCGGCCA 18
```

```
RESULT 1093
US-11-101-244-14599
; Sequence 14599, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14599
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14599
```

```
Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1455 GGAGAAGAAAGCGGCCA 1472
Db      1 GGAGAAGAAAGCGGCCA 18
```

```
RESULT 1094
US-11-101-244-14678
; Sequence 14678, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```

; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14678
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14678

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1455 GGAGGAAGAAAGCGCCCA 1472
DB      1   GGAGGAAGAAAGCGCCCA 18

RESULT 1095
US-11-101-244-14753
; Sequence 14753, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14753
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14753

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1455 GGAGGAAGAAAGCGCCCA 1472
DB      1   GGAGGAAGAAAGCGCCCA 18

RESULT 1096
US-11-101-244-82206/C
; Sequence 82206, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin

```

```

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 82206
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-82206

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 7.2e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY      616 UUCUGGCAUACUUGU 633
DB      19 TTCTGGCAATGCTTGT 2

RESULT 1097
US-11-101-244-82258/C
; Sequence 82258, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 82258
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-82258

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 7.2e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY      616 UUCUGGCAUACUUGU 633
DB      18 TTCTGGCAATGCTTGT 1

RESULT 1098
US-11-101-244-24660
; Sequence 24660, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin

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; APPLICANT: Marshall, William
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 246660
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-498660

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 285 CAACAAGCAGUGAAGAC 302
DB 2 CAACAAGCAGUGAAGAC 19

RESULT 1099
US-11-101-244-498576
; Sequence 498576, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 498576
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-498576

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 774 UGAAAAGCGUACCAAGA 791
DB 2 UGAAAAGCGUACCAAGA 19

RESULT 1100
US-11-101-244-498676
; Sequence 498676, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

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; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 498676
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-498676

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 774 UGAAAAGCGUACCAAGA 791
DB 2 UGAAAAGCGUACCAAGA 19

RESULT 1101
US-11-101-244-498775
; Sequence 498775, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 498775
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-498775

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 774 UGAAAAGCGUACCAAGA 791
DB 2 UGAAAAGCGUACCAAGA 19

RESULT 1102
US-11-101-244-588102/c
; Sequence 588102, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

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; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 588102
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-588102

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 66.7%; Pred. No. 7.2e+02;
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      106 CAUUUCGCGACGCUACA 123
DB      19 CATTTCGCGACGCTTCAAT 2

RESULT 1103
US-11-101-244-688861
; Sequence 688861, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 688861
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-688861

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      483 CAUCAGCUTUUGACAGAU 500
DB      1 CAUCAGCUTUUGACAGGUA 18

RESULT 1104
US-11-101-244-738023
; Sequence 738023, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 738023
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-738023

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      816 GACAGAGCGACGACAGA 833
DB      2 GACAGAGCGACGACAGA 19

RESULT 1105
US-11-101-244-829653/C
; Sequence 829653, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 829653
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-829653

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 77.8%; Pred. No. 7.2e+02;
Matches 14; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1043 ACTUCGCGUCUCGCGAG 1060
DB      18 ACTCTCTCTCTCGACG 1

RESULT 1106
US-11-101-244-875701
; Sequence 875701, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```



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; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 875701
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-875701

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 414 CUUGGCCUGGACCUUCUG 431
DB 1 CUGGACCUUGGACCUUCUG 18

RESULT 1107
US-11-101-244-923326
; Sequence 923326, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 923326
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-923326

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1218 CAAGCUCGAGCCGAGAA 1235
DB 1 CAAGCUCGAGCCGAGAA 18

RESULT 1108
US-11-101-244-982420
; Sequence 982420, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
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; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 982420
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-982420

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 860 CUGGAAGCUGGACGAGU 877
DB 2 CUGGAAGCUGGACGAGU 19

RESULT 1109
US-11-101-244-1083345
; Sequence 1083345, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1083345
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1083345

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1407 GAAAGCCGAGAGUCAGAU 1424
DB 1 GAAAGCCGAGAGUCAGAU 18

RESULT 1110
US-11-101-244-1216237
; Sequence 1216237, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
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; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1216237
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1216237

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      22 ACAACCCGCGCCUUGUUU 39
Db      2 AUAACCGCGCCUUGUUU 19

RESULT 1111
US-11-101-244-1308145/c
; Sequence 1308145, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1308145
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1308145

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 7.2e+02;
Matches 10; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY      575 CUGGCGCAUCCUCCUUUG 592
Db      18 CTTGGGCAATCTCCTTG 1

RESULT 1112
US-11-101-244-1422064/c
; Sequence 1422064, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: US/11101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
```

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; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1422064
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1422064

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 7.2e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY      616 UUCUGGCAUACUUGUUU 633
Db      19 TTCTGGGAAATCACTTGT 2

RESULT 1113
US-11-101-244-1422087/c
; Sequence 1422087, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1422087
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1422087

Query Match          0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 7.2e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY      616 UUCUGGCAUACUUGUUU 633
Db      18 TTCTGGGAAATCACTTGT 1

RESULT 1114
US-11-110-274-540/c
; Sequence 540, Application US/11110274
; Publication No. US20050266502A1
; GENERAL INFORMATION:
; APPLICANT: Merckhiers, Pascal G.
; APPLICANT: Spittaels, Koenraad F. F.
; TITLE OF INVENTION: Methods, Compositions and Compound Assays for Inhibiting
; FILE REFERENCE: P27,697-A USA
; CURRENT FILING DATE: 2005-04-20
; PRIOR APPLICATION NUMBER: US/11110,274
; PRIOR FILING DATE: 2004-04-20
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn version 3.3
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SEQ ID NO 540
LENGTH: 19
TYPE: DNA
ORGANISM: Homo sapiens
US-11-110-274-540

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 7.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 816 GACGAGCGCAGACAGA 833
DB 19 GACGAGCGCAGACAGA 2

RESULT 1115
US-11-176-026A-33
Sequence 33, Application US/11176026A
Publication No. US20060069074A1
GENERAL INFORMATION:
APPLICANT: Lemanske, Robert
APPLICANT: Sorkness, Christine
APPLICANT: Chinchilli, Vernon
APPLICANT: Liu, Wenlei
APPLICANT: Phillips, Brenda
APPLICANT: Zeiger, Robert
APPLICANT: Heldt, Gregory
APPLICANT: Martinez, Fernando
APPLICANT: Klineckl, Walter
APPLICANT: Guilbert, Theresa
APPLICANT: Morgan, Wayne
APPLICANT: Szeffler, Stanley
APPLICANT: Larsen, Gary
APPLICANT: Tausieg, Lynn
APPLICANT: Spahn, Joseph
APPLICANT: Strunk, Robert
APPLICANT: Bacharier, Leonard
APPLICANT: Bloomberg, Gordon
TITLE OF INVENTION: GENETIC PREDICTOR OF EFFICACY OF ANTI-ASTHMATIC AGENT FOR
TITLE OF INVENTION: IMPROVING PULMONARY FUNCTION
FILE REFERENCE: 960296, 00195
CURRENT APPLICATION NUMBER: US/11/176, 026A
CURRENT FILING DATE: 2005-07-07
PRIOR APPLICATION NUMBER: US 60/585, 872
PRIOR FILING DATE: 2004-07-07
NUMBER OF SEQ ID NOS: 40
SOFTWARE: PatentIn version 3.3
SEQ ID NO 33
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic DNA forward primer for 252 SNP.
US-11-176-026A-33

Query Match 0.9%; Score 16.4; DB 1; Length 19;
Best Local Similarity 66.7%; Pred. No. 7.2e+02;
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 328 CUGGCCUGGCCGAGUCCUG 345
DB 2 CTGGCCTGTGCTGATCTGT 19

RESULT 1116
US-10-310-914A-417659
Sequence 417659, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiler, Kiyazut
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
TITLE OF INVENTION: uses thereof

FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310, 914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 417659
LENGTH: 20
TYPE: RNA
ORGANISM: Human
US-10-310-914A-417659

Query Match 0.9%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 7.8e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1685 AGUGUGACAAACAAAAGA 1702
DB 2 AGUGUGACAAACAAAAGA 19

RESULT 1117
US-10-310-914A-698822
Sequence 698822, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiler, Kiyazut
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
TITLE OF INVENTION: uses thereof
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310, 914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 698822
LENGTH: 20
TYPE: RNA
ORGANISM: Human
US-10-310-914A-698822

Query Match 0.9%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 7.8e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 774 UGAAAGCGUACCAAGA 791
DB 1 UGAAAGCGUACCAAGA 18

RESULT 1118
US-10-310-914A-698823
Sequence 698823, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiler, Kiyazut
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
TITLE OF INVENTION: uses thereof
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310, 914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 698823
LENGTH: 20
TYPE: RNA
ORGANISM: Human
US-10-310-914A-698823

Query Match 0.9%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 7.8e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 774 UGAAGCGUACCAAGA 791
| | | | | | | | | |
Db 1 UGAAGCGUACCAAGA 18

RESULT 1119
US-10-310-914A-1371239
; Sequence 1371239, Application US/10310914A
; Publication No. US2006003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kivnat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 0607.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 138402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1371239
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1371239

Query Match 0.9%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1252 GGCAGUUCUCCAAAA 1267
| | | | | | | | | |
Db 3 GGCAGUUCUCCAAAA 18

RESULT 1120
US-11-083-784-456075/c
; Sequence 456075, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacom, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 456075
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-456075

Query Match 0.9%; Score 16; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. No. 7.8e+02;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 907 UCCACAGAGAGAGU 922
: | | | | | | | | | |
Db 19 TCACACGAGGAGAGT 4

RESULT 1121

US-11-083-784-1024020
; Sequence 1024020, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacom, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1024020
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1024020

Query Match 0.9%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1518 AUCACACUACUGGCU 1533
| | | | | | | | | |
Db 3 AUCACACUACUGGCU 18

RESULT 1122
US-11-083-784-1258483
; Sequence 1258483, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacom, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1258483
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1258483

Query Match 0.9%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1665 CAAGUUCUGUCUGCUG 1680
| | | | | | | | | |
Db 2 CAAGUUCUGUCUGCUG 17

RESULT 1123
US-11-083-784-1537374
; Sequence 1537374, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1537374
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1537374

Query Match 0.9%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 458 AUGCCUCUGUAVGAA 473
DB 3 AUGCCUCUGUAVGAA 18

RESULT 1124
US-11-101-244-456075/c
; Sequence 456075, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 456075
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-456075

Query Match 0.9%; Score 16; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. No. 7.8e+02;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 907 UCCAAAGAGGAGAGU 922
DB 1 UCCAAAGAGGAGAGU 922

Db 19 TCCACAGAGAGAGT 4
RESULT 1125
US-11-101-244-1024020
; Sequence 1024020, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1024020
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1024020

Query Match 0.9%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1518 AUAACAUAUAGUGU 1533
DB 3 AUAACAUAUAGUGU 18

RESULT 1126
US-11-101-244-1258483
; Sequence 1258483, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1258483
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1258483

Query Match 0.9%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1665 CAAGUUGUCUGUCUG 1680
DB 2 CAAGUUGUCUGUCUG 17

```
RESULT 1127
US-11-101-244-1537374
; Sequence 1537374, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1537374
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1537374

Query Match
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 458 AUGCCUCUGUUAUGAA 473
DB 3 AUGCCUCUGUUAUGAA 18

RESULT 1128
US-09-922-146-22
; Sequence 22, Application US/09922146
; Publication No. US20030083285A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 9 EXPRESSION
; FILE REFERENCE: RTS-0252
; CURRENT APPLICATION NUMBER: US/09/922,146
; CURRENT FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 48
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-922-146-22

Query Match
Best Local Similarity 93.8%; Pred. No. 8.4e+02;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1464 AGCGGCCGAGCCCTC 1479
DB 3 AGCGGCCGAGCCCTC 18

RESULT 1129
US-10-310-914A-593301
; Sequence 593301, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac

; APPLICANT: Shlier, Kiyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 593301
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-593301

Query Match
Best Local Similarity 100.0%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1177 GAGGAGAGCTUGGGGA 1192
DB 4 GAGGAGAGCTUGGGGA 19

RESULT 1130
US-10-310-914A-1148207/C
; Sequence 1148207, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Kiyuzat, Shlier
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1148207
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1148207

Query Match
Best Local Similarity 87.5%; Pred. No. 8.4e+02;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 957 CUGAAACCAGCUC 972
DB 17 CTGAAACCAGCTCC 2

RESULT 1131
US-09-817-014-154/C
; Sequence 154, Application US/09817014
; Patent No. US20020106646A1
; GENERAL INFORMATION:
; APPLICANT: Remacle, Jose
; APPLICANT: Hamels, Sandrine
; APPLICANT: Zammateo, Nathalie
; APPLICANT: Lockman, Laurence
; APPLICANT: Dufour, Sophie
; APPLICANT: Alexandre, Isabelle
; APPLICANT: De longueville, Francoise
; TITLE OF INVENTION: IDENTIFICATION OF BIOLOGICAL
; TITLE OF INVENTION: (MICRO)ORGANISMS BY DETECTION OF THEIR HOMOLOGOUS NUCLEOTIDE
; FILE REFERENCE: VANM213.001AUS
; CURRENT APPLICATION NUMBER: US/09/817,014
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: EP 00870055.1
; PRIOR FILING DATE: 2000-03-24
; PRIOR APPLICATION NUMBER: EP 00870204.5
```

```

; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatSeq for Windows Version 4.0.0
; SEQ ID NO 154
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: capture probe HTR7
; OS-09-817-014-154

```

Query Match	0.9%	Score 15.8;	DB 1;	Length 19;
Best Local Similarity	78.9%;	Pred. No. 8.1e+02;		
Matches	15;	Conservative	2;	Mismatches 2;
			Indels	0;
			Gaps	0;

```
Qy      510 CACGAGGCCGCUACGUAAC 528
          ||||| | : ||||| : ||
Db      .19 CACGAGACCCCTCACGTAC 1
```

RESULT 1132
US-10-056-229-155/c

```

Sequence 155, Application US/10056229
Publication No. US20030198943A1
GENERAL INFORMATION:
APPLICANT: Remacle, Jose
APPLICANT: Hamels, Sandrine
APPLICANT: Zammattéo, Nathalie
APPLICANT: Lockman, Laurence
APPLICANT: Dufour, Sophie
APPLICANT: Alexandre, Isabelle
APPLICANT: De Longueville, Francoise
TITLE OF INVENTION: IDENTIFICATION OF A LARGE NUMBER OF
TITLE OF INVENTION: BIOLOGICAL (MICRO)ORGANISMS GROUPS AT DIFFERENT
TITLE OF INVENTION: LEVELS BY THEIR DETECTION ON A SAME ARRAY
FILE REFERENCE: VANM213_001CPI
CURRENT APPLICATION NUMBER: US/10/056,229
CURRENT FILING DATE: 2002-01-23
PRIOR APPLICATION NUMBER: EP 00870055.1
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: EP 00870204.5
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: US 09/817,014
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 321
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 155
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: capture probe HTR7
US-10-056-229-155

```

Query Match	0.9%	Score 15.8;	DB 1;	Length 19;
Best Local Similarity	78.9%	Pred. No. 8.1e+02;		
Matches 15;	Conservative 2;	Mismatches 2;	Indels 0;	Gaps 0;

```

Oy      510 CACGAGCGCCGCUACCGUAC 528
          |||||  |||:|||||
Db      19  CACGAGACCCCTCACGTAC 1

```

RESULT 1133
US-10-444-925-126/C
Sequence 126, Application US/10444925
Publication No. US20040009946A1
GENERAL INFORMATION:
APPLICANT: Lewis, Stephen Patrick
APPLICANT: Klinghoffer, Richard
APPLICANT: Wilson, Linda K.
TITLE OF INVENTION: MODULATION OF PTP1B SIGNAL TRANSDUCTION
TITLE OF INVENTION: BY RNA INTERFERENCE

```

: FILE REFERENCE: 200125.444.
: CURRENT APPLICATION NUMBER: US/10/444,923
: CURRENT FILING DATE: 2003-05-23
: NUMBER OF SEQ ID NOS: 599
: SOFTWARE: FastSeq for Windows Version 4.0.
: SEQ ID NO 126
: LENGTH: 19
: TYPE: RNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Small interfering RNA
US-10-444-925-126

```

Query Match	0.9%	Score 15.8;	DB 1;	Length 19;
Best Local Similarity	52.6%;	Pred. No. 8.1e+02;		
Matches 10;	Conservative 7;	Mismatches 2;	Indels 0;	Gaps 0;

```
QY      593 UCCUUNUGGGGCUCCUGCCAU 611  
       ::::|::|::|:  
Db     19 TCCTTGGGCTTCTTCAT 1
```

```

RESULT 11345
US-10-750-185-18826/c
; Sequence 18826, Application US/10750185
; Publication No. US2005026063A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: PANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18826
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Forward Primer
; US-10-750-185-18826

```

Query Match	0.94;	Score 15.8;	DB 1;	Length 19;
Best Local Similarity	68.4%;	Pred. No. 8.1e+02;		
Matches 13;	Conservative 4;	Mismatches 2;	Indels 0;	Gaps 0;

QY 49 AGCUCUCCUGGAUACACA 67
|||: :||:|||||
Db 19 AGCTGTTCTCGATACACA 1

```

RESULT 1135
US-10-750-623-18826/C
? Sequence 18825, A01050623 US/10750623
? Publication NO. US2005028731A1
? GENERAL INFORMATION:
? APPLICANT: MMI GENOMICS, INC.
? APPLICANT: DENISE, Sue K.
? APPLICANT: KERR, Richard
? APPLICANT: ROSENFELD, David
? APPLICANT: HOLM, Tom
? APPLICANT: BATES, Stephen
? APPLICANT: FANTIN, Dennis
? TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
? FILE REFERENCE: MM1100-1

```

```

; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18826
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Forward Primer
; US-10-750-623-18826
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      49 AGCUCCTCCUGAGUACACA 67
Db      19 AGCTGTCTCGATACACA 1
```

```
RESULT 1136
US-10-310-914A-151740/C
; Sequence 151740, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 151740
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-151740
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 42.1%; Pred. No. 8.1e+02;
Matches 8; Conservative 9; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      584 UCUCUCUUCUCCUUGGCG 602
Db      19 TCCTCTTGACTTGTGTC 1
```

```
RESULT 1137
US-10-310-914A-213659
; Sequence 213659, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 213659
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-213659
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
```

```
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      11 ACAUAAACAGUACAACCTUC 29
Db      1 ACAUACAGAGAACCACTUC 19
```

```
RESULT 1138
US-10-310-914A-302114
; Sequence 302114, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 302114
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-302114
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1168 CAGGUCCTCGAGGAGGAGC 1186
Db      1 CAGCAGCUCGAGGAGGAGC 19
```

```
RESULT 1139
US-10-310-914A-302115
; Sequence 302115, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 302115
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-302115
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1168 CAGGUCCTCGAGGAGGAGC 1186
Db      1 CAGCAGCUCGAGGAGGAGC 19
```

```
RESULT 1140
US-10-310-914A-396511
; Sequence 396511, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kiyazat
```



```
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 396511
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-396511

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 810 CUCUGGACAGAGCGAG 828
DB 1 CUCUGGACAGAGCGAG 19

RESULT 1141
US-10-310-914A-520464/C
/ Sequence 520464, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 520464
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-520464

Query Match
Best Local Similarity 57.9%; Score 15.8; DB 1; Length 19;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 415 UUGGCTUGAGCCTCUGGC 433
DB 19 TTGACCTGTGACCTTGAC 1

RESULT 1142
US-10-310-914A-605977/C
/ Sequence 605977, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 605977
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-605977

Query Match
Best Local Similarity 78.9%; Score 15.8; DB 1; Length 19;
```

```
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1179 GGAGAGCUGGAGGUGUG 1197
DB 19 GGTGAGCTGGGAGGGTGG 1

RESULT 1143
US-10-310-914A-608678/C
/ Sequence 608678, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 608678
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-608678

Query Match
Best Local Similarity 73.7%; Score 15.8; DB 1; Length 19;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1172 UGCCUGAGAGAGCUGCG 1190
DB 19 TGCCTGTGCTGAGCTGGG 1

RESULT 1144
US-10-310-914A-629308/C
/ Sequence 629308, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ FILE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 629308
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-629308

Query Match
Best Local Similarity 68.4%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 787 AAAGACUGGUGGCGCCG 805
DB 19 AAAGACCTTCCTGCGCTGC 1

RESULT 1145
US-10-310-914A-647404/C
/ Sequence 647404, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

```

; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 647404
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-647404

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1023 UGCGUGGCGCCUCCUGGAG 1041
DB 1 UGCGUGGCGCCUCCUGGAG 19

RESULT 1146
US-10-310-914A-647405
; Sequence 647405, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 647405
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-647405

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1023 UGCGUGGCGCCUCCUGGAG 1041
DB 1 UGCGUGGCGCCUCCUGGAG 19

RESULT 1147
US-10-310-914A-670737
; Sequence 670737, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 670737
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-670737

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY 131 GAGCAGCTGGCAUUTUC 149
DB 1 GAGCAGCTGGAGAUUTUC 19

RESULT 1148
US-10-310-914A-1016294/c
; Sequence 1016294, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1016294
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1016294

Query Match
Best Local Similarity 73.7%; Score 15.8; DB 1; Length 19;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1181 AGGAGGTGGGGAUGUGGA 1199
DB 19 AGGAGGTGGTGAATGTGA 1

RESULT 1149
US-10-310-914A-1251060/c
; Sequence 1251060, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1251060
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1251060

Query Match
Best Local Similarity 73.7%; Score 15.8; DB 1; Length 19;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1178 AGGAGGAGCGGGAUGGU 1196
DB 19 AGGAGAGGCTGGGGCTGCT 1

RESULT 1150
US-10-310-914A-1252140/c
; Sequence 1252140, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
```

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; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1252140
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1252140

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1116 GGGUCACAGCACCACUCCUC 1134
DB 19 GGGGCACAGCACTATCTCTC 1

RESULT 1151
US-10-310-914A-1287594
; Sequence 1287594, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1287594
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1287594

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1592 GGCUCUGUCACAUCAACAG 1610
DB 1 GACUCUGUCACAUCAACAG 19

RESULT 1152
US-11-014-373-239/C
; Sequence 239, Application US/11014373
; Publication No. US20050196781A1
; GENERAL INFORMATION:
; APPLICANT: Robin, Howard
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA INTERFERENCE MEDIATED INHIBITION OF STAT3 GENE EXPRESSION
; FILE REFERENCE: 400/241 MEBH04-1067
; CURRENT APPLICATION NUMBER: US/11/014,373
; CURRENT FILING DATE: 2004-12-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
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; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 678
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 239
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Target Sequence/siNA sense region
US-11-014-373-239

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 808 GGCUCUGACAGAGGAGCAG 826
DB 19 GCCTGTGAGCAGAGGAGCAG 1

RESULT 1153
US-11-014-373-516
; Sequence 516, Application US/11014373
; Publication No. US20050196781A1
; GENERAL INFORMATION:
; APPLICANT: Robin, Howard
; APPLICANT: McSwigen, James
; TITLE OF INVENTION: RNA INTERFERENCE MEDIATED INHIBITION OF STAT3 GENE EXPRESSION
; FILE REFERENCE: 400/241 MEBH04-1067
; CURRENT APPLICATION NUMBER: US/11/014,373
; CURRENT FILING DATE: 2004-12-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 678
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 516
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Target Sequence/siNA sense region
US-11-014-373-516

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 808 GCCUCUGGACAGAGGCG 826

Db 1 GCCUCUGAGUCAGAGGCG 19

RESULT 1154

US-11-071-864-72

; Sequence 72, Application US/11071864

; Publication No. US20050202490A1

; GENERAL INFORMATION:

; APPLICANT: MAKAROV, VLADIMIR L.

; APPLICANT: KAMEROV, EMMANUEL

; APPLICANT: SUN, TONG

; APPLICANT: PINTER, JONATHAN H.

; APPLICANT: TARIER, BRENDAN J.

; APPLICANT: BRUNING, ERIC E.

; APPLICANT: KURIHARA, TAKAO

; APPLICANT: TESMER, TIM

; APPLICANT: M'WIRICHIA, JOSEPH

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR GENERATING AND AMPLIFYING

; TITLE OF INVENTION: DNA LIBRARIES FOR SENSITIVE DETECTION AND ANALYSIS OF

; TITLE OF INVENTION: DNA METHYLATION

; FILE REFERENCE: RUBC:023US

; CURRENT APPLICATION NUMBER: US/11/071,864

; CURRENT FILING DATE: 2005-03-03

; PRIOR APPLICATION NUMBER: 60/551,941

; PRIOR FILING DATE: 2004-03-08

; NUMBER OF SEQ ID NOS: 206

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 72

; LENGTH: 19

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; US-11-071-864-72

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 63.2%; Pred. No. 8.1e+02;

Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1673 UGCGUGGCGGACGUGGA 1691

Db 1 TGCTGGGCTGACAGTGTGA 19

RESULT 1155

US-11-083-784-14368

; Sequence 14368, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; CURRENT FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 14368

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

; US-11-083-784-14368

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 8.1e+02;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1460 AGAAGCGGCCGACCCU 1478

Db 1 AGAAGCGGCCGACCCU 19

RESULT 1156

US-11-083-784-14415

; Sequence 14415, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; CURRENT FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 14415

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

; US-11-083-784-14415

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 8.1e+02;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1591 UGCGUGGCGGACGUGGA 1609

Db 1 UGCGUGGCGGACGUGGA 19

RESULT 1157

US-11-083-784-15086

; Sequence 15086, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; CURRENT FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 15086
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-15086

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 236 UGAGACGGUCACACUA 314
Db 1 UGCACGCGUCACACUA 19

RESULT 1158
US-11-083-784-15128

; Sequence 15128, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 15128
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-15128

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 303 GGUCAACAUCUCCUCUC 321
Db 1 GGUCAACAUCUCCUCUC 19

RESULT 1159
US-11-083-784-22214/C

; Sequence 22214, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 22214
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-22214

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 40 CCAACATCAGCTTCTCT 58
Db 19 CCAACATCAGCTTCTCT 1

RESULT 1160
US-11-083-784-25249

; Sequence 25249, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 25249
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-25249

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1011 GAACAACAUGAUGUCU 1029
Db 1 GAACAACAUGAUGUCU 19

RESULT 1161
US-11-083-784-25349

; Sequence 25349, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050

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; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 25349
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-25349
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1011 GAACAACAUGAUGGCU 1029
Db      1 GAACUACAUGAUGCU 19
```

```
RESULT 1162
US-11-083-784-45869
; Sequence 45869, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 45869
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-45869
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1439 GGAUGUCCUGGCAAGA 1457
Db      1 GAUGUCCUGGCAAGA 19
```

```
RESULT 1163
US-11-083-784-52416
; Sequence 52416, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52416
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-52416
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      579 GGUCAUCCCUUGUCUU 597
Db      1 GGUCAUCCCUUGUCAU 19
```

```
RESULT 1164
US-11-083-784-52520
; Sequence 52520, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52520
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-52520
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      579 GGUCAUCCCUUGUCUU 597
Db      1 GGUCAUCCCUUGUCAU 19
```

```
RESULT 1165
US-11-083-784-52639
; Sequence 52639, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

```

; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52639
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-52639
```

```

Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      579 GGUCAUCCUCCUUGUCCU 597
      |||||
Db      1 GGUCAUCCUCCUUGUCCAU 19
```

```

RESULT 1166
US-11-083-784-52708
; Sequence 52708, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52708
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-52708
```

```

Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      579 GGUCAUCCUCCUUGUCCU 597
      |||||
Db      1 GGUCAUCCUCCUUGUCCAU 19
```

```

RESULT 1167
US-11-083-784-52803
; Sequence 52803, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
US-11-083-784-52803
```

```

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52803
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-52803
```

```

Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      579 GGUCAUCCUCCUUGUCCU 597
      |||||
Db      1 GGUCAUCCUCCUUGUCCAU 19
```

```

RESULT 1168
US-11-083-784-52901
; Sequence 52901, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52901
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-52901
```

```

Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      579 GGUCAUCCUCCUUGUCCU 597
      |||||
Db      1 GGUCAUCCUCCUUGUCCAU 19
```

```

RESULT 1169
US-11-083-784-86473
; Sequence 86473, Application US/11083784
US-11-083-784-86473
```

```
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 86473
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-86473
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

QY 1664 UGAAGUGCUCGUCGUCGUG 1682

DB 1 UGAAGUGCUCGUCGUG 19

```
RESULT 1170
US-11-083-784-96765
/ Sequence 96765, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 96765
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-96765
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

QY 300 GACGUCACACACTUACUC 318

DB 1 GACAGUCAUAACTUACUC 19

```
RESULT 1171
US-11-083-784-96770
/ Sequence 96770, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 96770
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-96770
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

QY 455 GCAUAGCCUCUGUUAUGAA 473

DB 1 GCAUAGCCUCUGUUAUGAA 19

```
RESULT 1172
US-11-083-784-96775
/ Sequence 96775, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 96775
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-96775
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

QY 453 CAGCAUAGCCUCUGUUAUG 471

DB 1 CAGCAUAGCCUCUGUUAUG 19

Db 1 CAGCAUCCUCCGUCUAUG 19

RESULT 1173

US-11-083-784-96789
; Sequence 96789, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96789
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96789

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 454 AGCAUCCUCCGUCUAUGA 472

Db 1 AGCAUCCUCCGUCUAUGA 19

RESULT 1174

US-11-083-784-96792
; Sequence 96792, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96792
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96792

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 456 CAUCCUCCGUCUAUGAU 474

Db 1 CAUCCUCCGUCUAUGAU 19

RESULT 1175

US-11-083-784-96794
; Sequence 96794, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96794
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96794

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1511 GGACCCGUCUAACAUCAU 1529

Db 1 GGACCCGUCUAACAUCAU 19

RESULT 1176

US-11-083-784-96795
; Sequence 96795, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96795
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96795

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 470 UGAUCCUUCGUGCAUACAG 488
||||| ||| ||| ||| |||

DB 1 UGAUCCUUCGUGCAUACAG 19

RESULT 1177
US-11-083-784-96884
; Sequence 96884, Application US/11083784
; Publication No. US20050245475A1

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary
; SEQ ID NO 96884

; LENGTH: 19
; TYPE: RNA

; ORGANISM: Homo sapiens
US-11-083-784-96884

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1493 UGGCCUUCACUACUUG 1511
||| ||| ||| ||| |||

DB 1 UGGCCUUCACUACUUG 19

RESULT 1178
US-11-083-784-97127
; Sequence 97127, Application US/11083784
; Publication No. US20050245475A1

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary
; SEQ ID NO 97127

; LENGTH: 19
; TYPE: RNA

; ORGANISM: Homo sapiens
US-11-083-784-97127

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 296 UGAAGCGUGCAACACUA 314
||| ||| ||| ||| |||

DB 1 UGAAGCGUGCAACACUA 19

RESULT 1179
US-11-083-784-97132
; Sequence 97132, Application US/11083784
; Publication No. US20050245475A1

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary
; SEQ ID NO 97132

; LENGTH: 19
; TYPE: RNA

; ORGANISM: Homo sapiens
US-11-083-784-97132

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 297 GAAGCGUGCAACACUAC 315
||| ||| ||| ||| |||

DB 1 GAAGCGUGCAACACUAC 19

RESULT 1180
US-11-083-784-97144
; Sequence 97144, Application US/11083784
; Publication No. US20050245475A1

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary
; SEQ ID NO 97144

; LENGTH: 19
; TYPE: RNA

SEQ ID NO 97144
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97144

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1586 GCUACUGGCUUGCUCAU 1604
DB 1 GCUACUGGCUUGCUCAU 19

RESULT 1181
US-11-083-784-97252
Sequence 97252, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmoon, Inc.
APPLICANT: Reynolds, Angela
APPLICANT: Reynolds, Angela
APPLICANT: Marshall, William
APPLICANT: Leake, Devin
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 97252
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-97252

Query Match
Best Local Similarity 89.9%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 493 GACGAGUACUUUCCAUCA 511
DB 1 GACGAGUACUUUCCAUCA 19

RESULT 1182
US-11-083-784-155844/c
Sequence 155844, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 155844
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-155844

Query Match
Best Local Similarity 63.2%; Score 15.8; DB 1; Length 19;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1020 UGAUGGUGGUGCCUG 1038
DB 19 TGAAGTCTGCTGCTCCCTG 1

RESULT 1183
US-11-083-784-193107/c
Sequence 193107, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Marshall, William
APPLICANT: Leake, Devin
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 193107
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-193107

Query Match
Best Local Similarity 68.4%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1400 UUGCUCUGAAGCAGAG 1418
DB 19 TTGCTATGAAGCAGATG 1

RESULT 1184
US-11-083-784-214402/c
Sequence 214402, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14

```

; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 214402
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-214402

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.1e+02;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1014 CACACAUGAUGCGUCGCC 1032
DB      19  CACAAATGACGCTGCGGCC 1

RESULT 1185
US-11-083-784-222230
; Sequence 222230, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 222230
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-222230

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      300 GACGGUACAACUACUACUC 318
DB      1  GACAGUCACCAACUACUUC 19

RESULT 1186
US-11-083-784-222321
; Sequence 222321, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
```

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; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 222321
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-222321

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      300 GACGGUACAACUACUACUC 318
DB      1  GACGGUACAACUACUUC 19

RESULT 1187
US-11-083-784-342052
; Sequence 342052, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 342052
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-342052

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1653 CAGATCACUUCACAGAG 1671
DB      1  CAGAACCAUUGUAGAG 19

RESULT 1188
US-11-083-784-391588/C
; Sequence 391588, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

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; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 391588
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-391588

Query Match
Best Local Similarity 68.4%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 42 AACAUCAAGCUCUCCUCUG 60
DB 19 AACATCACTCTCTCTG 1

RESULT 1189
US-11-083-784-409997
; Sequence 409997, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 409997
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-409997

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 43 AACAUCAAGCUCUCCUGA 61
DB 1 AACAUCAAGCUCUCCUGA 19

RESULT 1190
US-11-083-784-417946
; Sequence 417946, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 417946
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-417946

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 815 GGACAGAGCGACAGACAGA 833
DB 1 GGACAGAGCGACAGACAGA 19

RESULT 1191
US-11-083-784-462391/c
; Sequence 462391, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 462391
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-462391

Query Match
Best Local Similarity 73.7%; Score 15.8; DB 1; Length 19;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1428 UAAAGCGAAGAAAGAUCC 1446
DB 19 TAAAGCAAGAGAGATGTC 1

RESULT 1192
US-11-083-784-482025
; Sequence 482025, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 482025
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-482025
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

OY 1231 CAGAGAGCGUGAGCAGU 1249

Db 1 CAGAGAGCGUGAGCAGU 19

```

RESULT 1193
US-11-083-784-514801
; Sequence 514801, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 514801
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-514801
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

OY 859 UCUGAAGCUGAGCAGU 877

Db 1 UCUGAAGCUGAGCAGU 19

RESULT 1194
US-11-083-784-535685

```

; Sequence 535685, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 535685
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-535685
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

OY 655 GGAAGAGCGUCUACUACGU 673

Db 1 GGAAGAGCGUCUACUACGU 19

```

RESULT 1195
US-11-083-784-576464/C
; Sequence 576464, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 576464
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-576464
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 8.1e+02;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

OY 35 UGUUCCAAACUACGACUC 53

Db 19 TGUUCCAAATATACAGATC 1

RESULT 1196

US-11-083-784-581851/c
; Sequence 581851, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 581851
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-581851

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 47.4%; Pred. No. 8.1e+02;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 661 UGCUCAUUCAGUUCUCA 679

Db 19 TACTCATTCAGTTTCTCA 1

RESULT 1197

US-11-083-784-581953/c
; Sequence 581953, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 581953
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-581953

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 47.4%; Pred. No. 8.1e+02;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 661 UGCUCAUUCAGUUCUCA 679

Db 19 TACTCATTCAGTTTCTCA 1

RESULT 1198
US-11-083-784-640147
; Sequence 640147, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 640147
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-640147

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 815 GGACAGAGCGACAGACAGA 833

Db 1 GGCACAGCGCAGACAGAGA 19

RESULT 1199
US-11-083-784-645531/c
; Sequence 645531, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 645531
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-645531

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 8.1e+02;

Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 267 AAUUGUCUAUUAAGUC 285

Db 19 ACTGTGTCATGTAAGTC 1

RESULT 1200

US-11-083-784-653396/c

; Sequence 653396, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 653396

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-083-784-653396

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1038 GGAGAACUCCGCCUCC 1056

Db 19 GAAGAACTCTCTCTCTCC 1

RESULT 1201

US-11-083-784-653423/c

; Sequence 653423, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 653423

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-083-784-653423

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1038 GGAGAACUCCGCCUCC 1056

Db 19 GAAGAACTCTCTCTCTCC 1

RESULT 1202

US-11-083-784-661229/c

; Sequence 661229, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 661229

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-083-784-661229

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 8.1e+02;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 316 UUCUCUUAAGCUGCCU 334

Db 19 TTCCTCTGAGCTTGCCCT 1

RESULT 1203

US-11-083-784-691453/c

; Sequence 691453, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; PRIOR FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 691453

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-083-784-691453

TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-691453

Query Match
Best Local Similarity 63.2%; Score 15.8; DB 1; Length 19;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 411 GAACUGGCCUGGACCC 429
DB 19 GAACCTTGCCCTGTGACATC 1

RESULT 1204
US-11-083-784-691532/c
Sequence 691532, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 691532
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-691532

Query Match
Best Local Similarity 63.2%; Score 15.8; DB 1; Length 19;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 411 GAACUGGCCUGGACCC 429
DB 19 GAACCTTGCCCTGTGACATC 1

RESULT 1205
US-11-083-784-770039
Sequence 770039, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary
SEQ ID NO 770039
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-770039

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 466 GUUAUGAUCUCUGUCA 484
DB 1 GUUAUGAUCUCUCUGUCA 19

RESULT 1206
US-11-083-784-771283/c
Sequence 771283, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 771283
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-771283

Query Match
Best Local Similarity 52.6%; Score 15.8; DB 1; Length 19;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 597 UUGGCGCCUGCCAUCCUG 615
DB 19 TTGCGCTCCTGCTCTTG 1

RESULT 1207
US-11-083-784-819337
Sequence 819337, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10

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; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 819337
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-819337

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      815 GGACGAGGCGACGACGACA 833
      ||||| | ||||| | |||||
DB      1  GGACGAGGCGACGACGACA 19

RESULT 1208
US-11-083-784-845076
; Sequence 845076, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 845076
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-845076

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1524 CAUCAUGGUGUGUGGUAAC 1542
      ||||| | ||||| | |||||
DB      1  CAUCAUGGUGUGUGGUAC 19

RESULT 1209
US-11-083-784-860780
; Sequence 860780, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
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; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 860780
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-860780

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      243 GACCAUCAUCGGCAACAU 261
      ||||| | ||||| | |||||
DB      1  GACCAUCAUCUACAACAU 19

RESULT 1210
US-11-083-784-878444/C
; Sequence 878444, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 878444
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-878444

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      37 UUUCCAACAUCGUCUCU 55
      ::||| | ||||| | |||||
DB      19  TTTCACAACGACGCTTCT 1

RESULT 1211
US-11-083-784-891418
; Sequence 891418, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
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; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 891418
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-891418

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      818 CAGAGCGAGACAGAAA 836
Db      1 CAGAGCGAGACAGAAA 19

RESULT 1212
US-11-083-784-909909/c
; Sequence 909909, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 909909
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-909909

Query Match
Best Local Similarity 63.2%; Score 15.8; DB 1; Length 19;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      274 UCAUUDUAGGUCACAGC 292
Db      19 TCATTTAAGATCATCAAGC 1

RESULT 1213
US-11-083-784-910002/c
; Sequence 910002, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

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; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 910002
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-910002

Query Match
Best Local Similarity 68.4%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      248 UCAUCCGCAACUCCUGU 266
Db      19 TAAACGCAACATCCTGCT 1

RESULT 1214
US-11-083-784-910052/c
; Sequence 910052, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 910052
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-910052

Query Match
Best Local Similarity 68.4%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      248 UCAUCCGCAACUCCUGU 266
Db      19 TAAACGCAACATCCTGCT 1

RESULT 1215
US-11-083-784-941780
; Sequence 941780, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

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; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 941780
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-941780
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      306 CACCAACUACUCCUCUCUA 324
      ||||| ||||| ||||| |||||
DB      1 CACCAACUCCUCCUCUCUA 19
```

```

RESULT 1216
US-11-083-784-941970
; Sequence 941970, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 941970
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-941970
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      306 CACCAACUACUCCUCUCUA 324
      ||||| ||||| ||||| |||||
DB      1 CACCAACUCCUCCUCUCUA 19
```

```

RESULT 1217
US-11-083-784-1025790/c
; Sequence 1025790, Application US/11083784
; Publication No. US20050245475A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1025790
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1025790
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 8.1e+02;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      267 AAUUGUGUCAUUUAAGGUC 285
      ||::||::||::||::||
DB      19 AATGTGTCATATAAGCTC 1
```

```

RESULT 1218
US-11-083-784-1038110/c
; Sequence 1038110, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1038110
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1038110
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 8.1e+02;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      453 CAGCAUGCCUCCUGUUAUG 471
      ||||| ||||| ||||| |||||
DB      19 CATCACTGCCTCTGTATG 1
```

```

RESULT 1219
```

US-11-083-784-1052031/c
; Sequence 1052031, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1052031
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1052031

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 41 CAACAGCAGCUCUCUG 59
DB 19 CAACAGCAGCUCCTCTTG 1

RESULT 1220
US-11-083-784-1052055/c
; Sequence 1052055, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1052055
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1052055

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 42 AAACAGCAGCUCUCUG 60
DB 19 AAACAGCAGCUCCTCTTG 1

RESULT 1221
US-11-083-784-1082966
; Sequence 1082966, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1082966
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1082966

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCAGCUCAGCAGCUCUCUG 131
DB 1 GCAGCUCAGCAGCUCUCUG 19

RESULT 1222
US-11-083-784-1095950/c
; Sequence 1095950, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1095950
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1095950

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 634 GGAAGAGACTUGGCTUC 652
| | | | | : | : |
Db 19 GTAGAGAGACTGTGCTC 1

```

RESULT 1223
US-11-083-784-1143713
Sequence 1143713, Application US/11083784
Publication No. US20050245475a1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OR INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 1349905
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1143713
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1143713

```

Query Match	0.9%	Score 15.8;	DB 1;	Length 19;
Best Local Similarity	89.5%;	Pred. No. 8.1e+02;		
Matches 17; Conservative	0;	Mismatches 2;	Indels 0;	Gaps 0;

QY	1193	UGGUGACTUGGAGAGGAA	1211
Db	1	UGGAGGACCTUGGAGAGGAA	19

```

RESULT 1224
US-11-083-784-1202196/c
? Sequence 1202196, Application US/11083784
? Publication No. US20050245475a1
? GENERAL INFORMATION:
? APPLICANT: Dharmacoon, Inc.
? APPLICANT: Khvorova, Anastasia
? APPLICANT: Reynolds, Angela
? APPLICANT: leeke, Devin
? APPLICANT: Marshall, William
? APPLICANT: Scaringe, Stephen
? TITLE OF INVENTION: Functional and Hyperfunctional siRNA
? FILE REFERENCE: 134990S
? CURRENT APPLICATION NUMBER: US/11/083,784
? PENDING FILING DATE: 2005-03-18
? PRIOR APPLICATION NUMBER: US/10/714,333
? PRIOR FILING DATE: 2003-11-14
? PRIOR APPLICATION NUMBER: 60/502,050
? PRIOR FILING DATE: 2003-09-10
? PRIOR APPLICATION NUMBER: 60/426,137
? PRIOR FILING DATE: 2002-11-14
? NUMBER OF SEQ ID NOS: 1591911
? SOFTWARE: Proprietary
? SEQ ID NO 1202196
? LENGTH: 19
? TYPE: RNA
? ORGANISM: Homo sapiens
US-11-083-784-1202196

```

Query Match 0.94; Score 15.8; DB 1; Length 19;

Best Local Similarity 57.9%; Pred. No. 8.1e+02;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0

Qy 141 CAUUUUCUCCUCUCCAGAC 159
|||:::||:|: ||
Db 19 CAATTCTCCTCTTCAAC 1

```

RESULT 1225
US-11-083-784-1237713
  Sequence 1237713, Application US/11083784
  Publication No. US20050245475A1
  GENERAL INFORMATION:
    APPLICANT: Dharmacon, Inc.
    APPLICANT: Khvorova, Anastasia
    APPLICANT: Reynolds, Angela
    APPLICANT: Leake, Devin
    APPLICANT: Marshall, William
    APPLICANT: Scaringe, Stephen
    TITLE OF INVENTION: Functional and Hyperfunctional siRNA
    FILE REFERENCE: 134990S
    CURRENT APPLICATION NUMBER: US/11/083,784
    CURRENT FILING DATE: 2005-03-18
    PRIOR APPLICATION NUMBER: US/10/714,333
    PRIOR FILING DATE: 2003-11-14
    PRIOR APPLICATION NUMBER: 60/502,050
    PRIOR FILING DATE: 2003-09-10
    PRIOR APPLICATION NUMBER: 60/426,137
    PRIOR FILING DATE: 2002-11-14
    NUMBER OF SEQ ID NOS: 1591911
    SOFTWARE: Proprietary
    SEQ ID NO 1237713
    LENGTH: 19
    TYPE: RNA
  ORGANISM: Homo sapiens
US-11-083-784-1237713

```

Query Match	0.9%	Score 15.8	DB 1	Length 19
Best Local Similarity	89.5%	Pred. No. 8.1e+02		
Matches 17; Conservative	0	Mismatches 2	Indels 0	Gaps 0

OY		1218	CAAGTCAGGCCCAGAAG	1236
Db		1	CAAGATCAGGCCCAAG	19

```

RESULT 1226
US-11-083-784-1267843/C
: Sequence 1267843, Application US/11083784
: Publication No. US20050245475A1
: GENERAL INFORMATION:
: APPLICANT: Dharmacon, Inc.
: APPLICANT: Khvorova, Anastasia
: APPLICANT: Reynolds, Angela
: APPLICANT: Leake, Devin
: APPLICANT: Marshall, William
: APPLICANT: Scaringe, Stephen
: TITLE OR INVENTION: Functional and Hyperfunctional siRNA
: FILE REFERENCE: 1349905
: CURRENT APPLICATION NUMBER: US/11/083,784
: CURRENT FILING DATE: 2005-03-18
: PRIOR APPLICATION NUMBER: US/10/714,333
: PRIOR FILING DATE: 2003-11-14
: PRIOR APPLICATION NUMBER: 60/502,050
: PRIOR FILING DATE: 2003-09-10
: PRIOR APPLICATION NUMBER: 60/426,137
: PRIOR FILING DATE: 2002-11-14
: NUMBER OF SEQ ID NOS: 1591911
: SOFTWARE: Proprietary
: SEQ ID NO 1267843
: LENGTH: 19
: TYPE: RNA
: ORGANISM: Homo sapiens

```

US-11-083-784-1267843

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1648 ACAUUCAGACACACUUUCA 1666
||||:|||||
DB 19 ACATTAGCACCACTTCA 1

RESULT 1227

US-11-083-784-1267942/c
; Sequence 1267942, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1267942
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1267942

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1648 ACAUUCAGACACACUUUCA 1666
||||:|||||
DB 19 ACATTAGCACCACTTCA 1

RESULT 1228

US-11-083-784-1302272
; Sequence 1302272, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1302272

; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1302272

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 758 GGAUCUUAUGAGAAACUGA 776
|||||
DB 1 GGAUUAUGAGAAACUGA 19

RESULT 1229

US-11-083-784-1312578
; Sequence 1312578, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1312578
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1312578

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1720 CAGCAGAGACGUCGUGCA 1738
|||||
DB 1 CAGCAGAGACGUCGUGCA 19

RESULT 1230

US-11-083-784-1348446/c
; Sequence 1348446, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14

```
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1348446
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1348446
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      42 AAACATCAGCTCCTCCUGG 60
Db      19 AAACATGAGCTCCACCTGG 1
```

```
RESULT 1231
US-11-083-784-1365309/C
; Sequence 1365309, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1365309
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1365309
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1392 CAAGAGGUTUGCUCUGAAG 1410
Db      19 CAACAGGTGCTGCTGAG 1
```

```
RESULT 1232
US-11-083-784-1372117
; Sequence 1372117, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1372117
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1372117
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1646 AAACATUCAGAACACACUUD 1664
Db      1 AAACATUCAGACUACUUD 19
```

```
RESULT 1233
US-11-083-784-1393220
; Sequence 1393220, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1393220
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1393220
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1119 UCACAGCACCAUCCUACAC 1137
Db      1 UCACAGCACCAUCCACAC 19
```

```
RESULT 1234
US-11-083-784-1443908
; Sequence 1443908, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
```



```

; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1443908
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1443908
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      988 GACCAACAGCAGCAGUGACA 1006
      |||||
      1 GACCAACAGCAGCAGUGACA 19
```

```

RESULT 1235
US-11-083-784-1450263/c
; Sequence 1450263, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1450263
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1450263
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 8.1e+02;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1257 UUUUCCAAAGGAGUCC 1275
      ::|||
      19 TTCTCCAAATGCTCTCC 1
```

```

RESULT 1236
US-11-083-784-1462725/c
; Sequence 1462725, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1462725
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1462725
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1428 UAGCGGAAAGGAGUCC 1446
      :|||
      19 TTAGCAGAAAGAGATGTC 1
```

```

RESULT 1237
US-11-083-784-1462771/c
; Sequence 1462771, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1462771
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1462771
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1427 CUAAGCGAAAGAGUCC 1445
      :|||
      19 CTAAGCAGAAAGAGATGTC 1
```

```

RESULT 1238
US-11-083-784-1466198/c
; Sequence 1466198, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

```

; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1466198
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1466198

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      38 UUCGAAACUACGUCUCUC 56
DB      19 TTCGAAATACGAGCTCTC 1

RESULT 1239
US-11-083-784-1496063
; Sequence 1496063, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1496063
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1496063

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1628 GCUAGCUCUCUGCAACAA 1646
DB      1 GCUAGCUCUCUGCUCUACAA 19

RESULT 1240
US-11-083-784-1526168/c
; Sequence 1526168, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
```

```

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1526168
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1526168

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 47.4%; Pred. No. 8.1e+02;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY      616 UUCGCGCAUACUUCUGUG 634
DB      19 TTCGCGAATACCTTCTCTG 1

RESULT 1241
US-11-083-784-1540139/c
; Sequence 1540139, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1540139
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1540139

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      43 AACAUACGUCUCUCUGCA 61
DB      19 AACATCAGCACCTTCTTGA 1

RESULT 1242
US-11-083-784-1555890/c
; Sequence 1555890, Application US/11083784
```

```
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1555890
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1555890
```

```
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1458 GAAGAAAGCGCCGACACC 1476
DB 19 GATGAAGTGGCCGACACC 1
```

```
RESULT 1243
US-11-083-784-1567851/c
Sequence 1567851, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1567851
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1567851
```

```
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 47.4%; Pred. No. 8.1e+02;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 206 UCUCAGCGCUCUUAAC 224
DB 19 TCTTCATCGCTATCTTCAC 1
```

```
RESULT 1244
US-11-083-784-1571143/c
Sequence 1571143, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1571143
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1571143
```

```
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 38 UUCGAACAUCAGCUCUC 56
DB 19 TTCGAACATCACTTCCTC 1
```

```
RESULT 1245
US-11-083-784-1586104/c
Sequence 1586104, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1586104
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1586104
```

```
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 40 CCAACAUCAGCUCUCUC 58
DB 19 TCTTCATCGCTATCTTCAC 1
```

Db 19 CCAAGATGAGCTCTCTCT 1

```
RESULT 1246
US-11-083-784-1586107/c
; Sequence 1586107, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1586107
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1586107
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 42 AACACUCCGCTCCTCTCTG 60
Db 19 AAAGATGAGCTCTCTCTG 1

```
RESULT 1247
US-11-083-784-1586158/c
; Sequence 1586158, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1586158
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1586158
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 41 CCAACUCCGCTCCTCTCTG 59
Db 19 CCAAGATGAGCTCTCTCTG 1

```
RESULT 1248
US-11-101-244-14368
; Sequence 14368, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14368
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14368
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1460 AGAAGCGGCGCCAGACCU 1478
Db 1 AGAAGCGGCGCAAGACCU 19

```
RESULT 1249
US-11-101-244-14415
; Sequence 14415, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 14415
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-14415
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1591 UGCGUGGUCGACUACA 1609
|||||
Db 1 UGCGUGGUCGACUACA 19

RESULT 1250
US-11-101-244-15086
; Sequence 15086, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 15086
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-15086

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 236 UGAGACGCGUCACACUA 314
|||||
Db 1 UGAGACGCGUCACACUA 19

RESULT 1251
US-11-101-244-15128
; Sequence 15128, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 15128
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-15128

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 303 GGUCAACAUCUCCUC 321

Db 1 GGUCAACAUCUCCUC 19
|||||

RESULT 1252
US-11-101-244-22214/C
; Sequence 22214, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 22214
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-22214

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 40 CCAACAUCAUCUCCUCU 58
|||||
Db 19 CCAACATCAGCTTCT 1

RESULT 1253
US-11-101-244-25249
; Sequence 25249, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 25249
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-25249

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1011 GAACACAUAUGUGCU 1029
|||||

Db 1 GAACUACAUGAUGCUACU 19

```
RESULT 1254
US-11-101-244-25349
; Sequence 25349, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 25349
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-25349
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1011 GAACAACAUGAUGCU 1029
Db 1 GAACUACAUGAUGCUACU 19

```
RESULT 1255
US-11-101-244-45869
; Sequence 45869, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 45869
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-45869
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1439 GGAUGUCCUGGUGAAGA 1457
Db 1 GAUGUCCUGGCAAGA 19

```
RESULT 1256
US-11-101-244-52416
; Sequence 52416, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52416
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-52416
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 579 GGUCAUCCUUGUCCU 597
Db 1 GGUCAUCCUUGUCCAU 19

```
RESULT 1257
US-11-101-244-52520
; Sequence 52520, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 52520
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-52520
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 579 GGUCAUCCUUGUCCU 597
Db 1 GGUCAUCCUUGUCCAU 19

RESULT 1258

US-11-101-244-52639

; Sequence 52639, Application US/11101244
; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 52639

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-52639

Query Match

Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Pred. No. 8.1e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 579 GGUCAUCCCUUUGUCCU 597
|||||

Db 1 GGUCAUCCCUUUGUCCAU 19

RESULT 1259

US-11-101-244-52708

; Sequence 52708, Application US/11101244
; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 52708

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-52708

Query Match

Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Pred. No. 8.1e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 579 GGUCAUCCCUUUGUCCU 597
|||||

Db 1 GGUCAUCCCUUUGUCCAU 19

RESULT 1260

US-11-101-244-52803

; Sequence 52803, Application US/11101244
; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 52803

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-52803

Query Match

Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Pred. No. 8.1e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 579 GGUCAUCCCUUUGUCCU 597
|||||

Db 1 GGUCAUCCCUUUGUCCAU 19

RESULT 1261

US-11-101-244-52901

; Sequence 52901, Application US/11101244
; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 52901

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-52901

Query Match

Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Pred. No. 8.1e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 579 GGUCAUCCCUUUGUCCU 597
|||||

Db 1 GGUCAUCCCUUUGUCCAU 19

RESULT 1262

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US-11-101-244-86473
; Sequence 86473, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 86473
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-86473

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1664 UCAAGUGCUCGUCGUG 1682
Db      1 UGAAGUGCUCGUGAUG 19

RESULT 1263
US-11-101-244-96765
; Sequence 96765, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96765

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      300 GACGUCACACUACUUC 318
Db      1 GACGUCACUAACTUUC 19

RESULT 1264
US-11-101-244-96770
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```
; Sequence 96770, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96770
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96770

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      455 GCAUGCCUCUGUUGAA 473
Db      1 GCAUGCCUCGUGAUGAA 19

RESULT 1265
US-11-101-244-96775
; Sequence 96775, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96775
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96775

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      453 CAGCAUGCCUCUGUUAUG 471
Db      1 CAGCAUGCCUCGUGAUG 19

RESULT 1266
US-11-101-244-96789
; Sequence 96789, Application US/11101244
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```
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96789
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96789

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      454 AGCAAGCCUCGUCUUAUGA 472
Db      1 AGCAAGCCUCGUCUUAUGA 19

RESULT 1267
US-11-101-244-96792
; Sequence 96792, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96792
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96792

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      456 CAUAGCCUCGUCUUAUGAU 474
Db      1 CAUAGCCUCGUCUUAUGAU 19

RESULT 1268
US-11-101-244-96794
; Sequence 96794, Application US/11101244
; Publication No. US20050246794A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96794
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96794

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1511 GGACCCGUAACACAUCAU 1529
Db      1 GGACCCGUAACACAUCAU 19

RESULT 1269
US-11-101-244-96795
; Sequence 96795, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96795
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96795

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      470 UGAUUCUGGUCGUCACAG 488
Db      1 UGAUUCUGGUCGUCACAG 19

RESULT 1270
US-11-101-244-96884
; Sequence 96884, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 96884
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-96884

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1493 UUGCCUUCACUACUACUUG 1511
      |||||
DB      1 UGCCTUUCACUACUACUUG 19
```

```

RESULT 1271
US-11-101-244-97127
; Sequence 97127, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97127
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97127
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      296 UGAAGCGGUCACACACUA 314
      |||||
DB      1 UGCAGACGUCACACACUA 19
```

```

RESULT 1272
US-11-101-244-97132
; Sequence 97132, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97132
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97132
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      297 GAAGACGGUCACACACUAC 315
      |||||
DB      1 GCAGACGUCACACACUAC 19
```

```

RESULT 1273
US-11-101-244-97144
; Sequence 97144, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97144
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97144
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1586 GCUACUGGUCGUCUACAU 1604
      |||||
DB      1 GCUACUGGUCGUCUACGU 19
```

```

RESULT 1274
US-11-101-244-97252
; Sequence 97252, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 97252
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-97252
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      493 GACGAGUACUUCUCCAUC 511
Db      1 GACCGUACUUCUCCAUC 19
```

```
RESULT 1275
US-11-101-244-155844/c
/ Sequence 155844, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 155844
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-155844
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1020 UGAGUCGUCGUCUCCUG 1038
Db      19 TGAGTCTGCTGCTCCCTG 1
```

```
RESULT 1276
US-11-101-244-193107/c
/ Sequence 193107, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
```

```
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 193107
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-193107
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1400 UUGCUCUGAAGACCGAG 1418
Db      19 TTGCTATGAAGACCGATG 1
```

```
RESULT 1277
US-11-101-244-214402/c
/ Sequence 214402, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 214402
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-214402
```

```
Query Match      0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.1e+02;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1014 CAAACAUGAGUCGUGCC 1032
Db      19 CAACATGAGCGTGGCGCC 1
```

```
RESULT 1278
US-11-101-244-222230
/ Sequence 222230, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
```

```
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 222230
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-222230
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      300 GACGGUACAACAACUACUUC 318
      ||||| ||||| ||||| |||||
Db      1 GACAGUCACCAACUACUUC 19
```

```
RESULT 1279
US-11-101-244-222321
; Sequence 222321, Application US/11101244
; Publication No. US20050246794A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 222321
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-222321
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      300 GACGGUACAACAACUACUUC 318
      ||||| ||||| ||||| |||||
Db      1 GACGGUACAACAACUACUUC 19
```

```
RESULT 1280
US-11-101-244-342052
; Sequence 342052, Application US/11101244
; Publication No. US20050246794A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

```
; APPLICANT: Scaringe, Stephen
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 342052
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-342052
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1653 CAGAACACUUCUACAAGUG 1671
      ||||| ||||| ||||| |||||
Db      1 CAGAACACUUCUACAAGUG 19
```

```
RESULT 1281
US-11-101-244-391588/c
; Sequence 391588, Application US/11101244
; Publication No. US20050246794A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 391588
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-391588
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      42 AAACATCAGCTCTCTCTGG 60
      ||||| :||| :||| :|||
Db      19 AAACATCAGCTCTCTCTGG 1
```

```
RESULT 1282
```

```
US-11-101-244-409997
```

```
; Sequence 409997, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 409997
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-409997

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 43 AACAUACGCUCCUCCAUGA 61
DB 1 AACAUACGCUCCUCCAUGA 19

RESULT 1283
US-11-101-244-417946
; Sequence 417946, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 417946
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-417946

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 815 GGACAGAGCGCAGACAGA 833
DB 1 GGACAGAGCGCAGACAGA 19

RESULT 1284
US-11-101-244-462391/c
; Sequence 462391, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 462391
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-462391

Query Match
Best Local Similarity 73.7%; Score 15.8; DB 1; Length 19;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1428 UAAGCGAAAGAGAUUCC 1446
DB 19 UAAGCGAAAGAGATGTC 1

RESULT 1285
US-11-101-244-482025
; Sequence 482025, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 482025
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-482025

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1231 CAGAAAGCGUGAGCAUG 1249
DB 1 CAGAAAGCGUGAGCAUG 19

RESULT 1286
US-11-101-244-514801
; Sequence 514801, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

```
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 514801
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-514801

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 859 UCUGAAGCUGCAGAGUU 877
Db 1 UCUGAAGCUGCAGAGUU 19

RESULT 1287
US-11-101-244-535685
; Sequence 535685, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 535685
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-535685

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 GGAGAGUGCUCUACAGU 673
Db 1 GGAGAGUGCUCUACAGU 19

RESULT 1288
US-11-101-244-576464/C
; Sequence 576464, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
```

```
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 576464
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-576464

Query Match
Best Local Similarity 57.9%; Score 15.8; DB 1; Length 19;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 35 UGUUCCAAACAUACAGCUC 53
Db 19 TGTTCGAAATATCAGATC 1

RESULT 1289
US-11-101-244-581851/C
; Sequence 581851, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 581851
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-581851

Query Match
Best Local Similarity 47.4%; Score 15.8; DB 1; Length 19;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 661 UGCUCUACUACAGUCCUCA 679
Db 19 TACTTCATTCAGTTCTCA 1

RESULT 1290
US-11-101-244-581953/C
; Sequence 581953, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
```

```

; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 581953
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-581953

Query Match
Best Local Similarity 47.4%; Score 15.8; DB 1; Length 19;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 661 UGCUUACUUCAGUUCUCA 679
Db 19 TACTTCATTCACTTCTCA 1

RESULT 1291
US-11-101-244-640147
; Sequence 640147, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 640147
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-640147

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 815 GGACAGAGCGACAGACGA 833
Db 1 GGCGAGAGCGACAGACGA 19

RESULT 1292
US-11-101-244-645531/C
; Sequence 645531, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
```

```

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 645531
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-645531

Query Match
Best Local Similarity 52.6%; Score 15.8; DB 1; Length 19;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 267 AAUUGUGUACUUAAGGUC 285
Db 19 ACTTGTCATTCAGAGGTC 1

RESULT 1293
US-11-101-244-653396/C
; Sequence 653396, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 653396
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-653396

Query Match
Best Local Similarity 73.7%; Score 15.8; DB 1; Length 19;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1038 GGAGAACUCCGCGUCCUCC 1056
Db 19 GAAGAACCTCTCTCTCTCC 1

RESULT 1294
US-11-101-244-653423/C
; Sequence 653423, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
```

```

; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 653423
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-653423
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1038 GGAGAACUCCGCCUCCUCC 1056
DB      19  GAAGAACTCTCTCCTCCTCC 1
```

```
RESULT 1295
US-11-101-244-661229/c
; Sequence 661229, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 661229
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-661229
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 8.1e+02;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      316 UUCUCUUAAGCCUGGCCU 334
DB      19  TTCCTTGAGCCTTGCCCT 1
```

```
RESULT 1296
US-11-101-244-691453/c
; Sequence 691453, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
```

```

; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 691453
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-691453
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      411 GAACUUGGCGGUGGACUCC 429
DB      19  GAACCTGCCCTGTGACATC 1
```

```
RESULT 1297
US-11-101-244-691532/c
; Sequence 691532, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 691532
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-691532
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      411 GAACUUGGCGGUGGACUCC 429
DB      19  GAACCTGCCCTGTGACATC 1
```

```
RESULT 1298
US-11-101-244-770039
; Sequence 770039, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
```



```

; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 770039
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-770039
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      466 GUUUGAUAUCUUCUGUCA 484
      ||||| ||||| ||||| |||||
DB      1 GUUUGAUAUCUUCUGUCA 19
```

RESULT 1299

```

US-11-101-244-771283/C
; Sequence 771283, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 771283
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-771283
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 8.1e+02;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      597 UUGGCGUCCGCAUCUCUG 615
      ::|||:|||:|||:|||
DB      19 TTGGCTCTGCTTCTTG 1
```

RESULT 1300

```

US-11-101-244-819337
; Sequence 819337, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
```

```

; SOFTWARE: Proprietary
; SEQ ID NO: 819337
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-819337
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      815 GGAAGAGGAGGAGACAGA 833
      ||||| ||||| ||||| |||||
DB      1 GGAAGAGGAGGAGACAGA 19
```

RESULT 1301

```

US-11-101-244-845076
; Sequence 845076, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 845076
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-845076
```

```

Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1524 CAUCAUGGUUCUGUGAAC 1542
      ||||| ||||| ||||| |||||
DB      1 CAUCAUGGUUCUGUGAAC 19
```

RESULT 1302

```

US-11-101-244-860780
; Sequence 860780, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
```

```
; SEQ ID NO 860780
;
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-860780
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      243 GACCAUCAUCGGCAACAU 261
Db      1 GACCAUCAUCUACAACAU 19
```

```
RESULT 1303
US-11-101-244-878444/c
; Sequence 878444, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 878444
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-878444
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      37 UUUCCAACAUCCGCUCCU 55
Db      19 TTTCACACAGCAGCTTCT 1
```

```
RESULT 1304
US-11-101-244-891418
; Sequence 891418, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 891418
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-891418
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      818 CAGAGCGACAGACAGAAA 836
Db      1 CAGAGCGACAGACAGAAUA 19
```

```
RESULT 1305
US-11-101-244-909909/c
; Sequence 909909, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 909909
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-909909
```

```
Query Match          0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.1e+02;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      274 UCAUUAAGUCUACAAGC 292
Db      19 TCATTAAAGATCATCAAGC 1
```

```
RESULT 1306
US-11-101-244-910002/c
; Sequence 910002, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 910002
; LENGTH: 19
```

```

; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-910002

Query Match
Best Local Similarity 68.4%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      248 UCAUGCGCAACUCCUGU 266
Db      19 TAACCGCAACATCTGT 1

RESULT 1307
US-11-101-244-910052/c
; Sequence 910052, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 910052
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-910052

Query Match
Best Local Similarity 68.4%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      248 UCAUGCGCAACUCCUGU 266
Db      19 TAACCGCAACATCTGT 1

RESULT 1308
US-11-101-244-941780
; Sequence 941780, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 941780
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
```

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; ORGANISM: Homo sapiens
US-11-101-244-941780

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      306 CAACAACUACUCCUCUUA 324
Db      1 CAACAACUCCUCCUCUUA 19

RESULT 1309
US-11-101-244-941970
; Sequence 941970, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 941970
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-941970

Query Match
Best Local Similarity 89.5%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      306 CAACAACUACUCCUCUUA 324
Db      1 CAACAACUCCUCCUCUUA 19

RESULT 1310
US-11-101-244-1025790/c
; Sequence 1025790, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1025790
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
```

US-11-101-244-1025790

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 8.1e+02;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 267 AAUUGUCUAUUAAAGUC 265
||:|:|:|:|:|:|:|:|:
DB 19 AATTGTGTCATATTAAGCTC 1

RESULT 1311

US-11-101-244-1038110/C
; Sequence 1038110, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1038110
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1038110

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 8.1e+02;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 453 CAGCAUCCUCUUGUUAUG 471
|||:|:|:|:|:|:|:|:|:
DB 19 CATCTAGCTCTCTTATG 1

RESULT 1312

US-11-101-244-1052031/C
; Sequence 1052031, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1052031
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1052031

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 41 CAACAGCAGCUCUCCUG 59
|||||:|:|:|:|:|:|:|:|:
DB 19 CAACAGCAGCTCTCTTG 1

RESULT 1313

US-11-101-244-1052055/C
; Sequence 1052055, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1052055
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1052055

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 42 AAACAGCAGCUCUCCUG 60
|||||:|:|:|:|:|:|:|:|:
DB 19 AAACAGCAGCTCTCTTG 1

RESULT 1314

US-11-101-244-1082966
; Sequence 1082966, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Leake, Devin
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1082966
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1082966

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCAGCUCACAUUGUUCUG 131
DB 1 GCAGCUCACAUUGUUCUG 19

RESULT 1315

US-11-101-244-1095950/C
; Sequence 1095950, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1095950
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1095950

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 634 GGAAGAGACUCUGCCUC 652
DB 19 GTAAGAGAACTGTGCTC 1

RESULT 1316

US-11-101-244-1143713
; Sequence 1143713, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1143713
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1143713

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1193 UGUGGACUCUGAGAGAA 1211
DB 1 UGAGGACUCUGAGAGAA 19

RESULT 1317

US-11-101-244-1202196/C
; Sequence 1202196, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1202196
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1202196

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 8.1e+02;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 141 CAUUUCUCUCUCAGAC 159
DB 19 CAATTCTCTCTCAAC 1

RESULT 1318

US-11-101-244-1237713
; Sequence 1237713, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1237713
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1237713

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1218 CAAGCUGCAGGCCGAGAG 1236

Db 1 CAAGAVGCAGGCCGAGAVG 19

RESULT 1319

US-11-101-244-1267843/c

; Sequence 1267843, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT FILING DATE: 2005-04-07

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 1267843

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-1267843

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 63.2%; Pred. No. 8.1e+02;

Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1648 ACAUUCAGACCACTUUC 1666

Db 19 ACATTAGCACCACTTCA 1

RESULT 1320

US-11-101-244-1267942/c

; Sequence 1267942, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT FILING DATE: 2005-04-07

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 1267942

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-1267942

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 63.2%; Pred. No. 8.1e+02;

Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1648 ACAUUCAGACCACTUUC 1666

Db 19 ACATTAGCACCACTTCA 1

RESULT 1321

US-11-101-244-1302272

; Sequence 1302272, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT FILING DATE: 2005-04-07

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 1302272

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-1302272

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 8.1e+02;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 758 GGAUUCUUAAGGAACUGA 776

Db 1 GGAUUAUGAGGAAACUGA 19

RESULT 1322

US-11-101-244-1312578

; Sequence 1312578, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT FILING DATE: 2005-04-07

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 1312578

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-1312578

Query Match 0.9%; Score 15.8; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 8.1e+02;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db 1 UCACGACGACCAUUCACAC 19

```
RESULT 1327
US-11-101-244-1443908
; Sequence 1443908, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1443908
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1443908
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 988 GACCAAGCAGCAGUGACA 1006
Db 1 GACCAAGCAGCAGUGACA 19

```
RESULT 1328
US-11-101-244-1450263/c
; Sequence 1450263, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1450263
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1450263
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 8.1e+02;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 1257 UUUUCCAAAAGCUCUCC 1275
Db 19 TTCTCCAAATGCTCTCC 1

```
RESULT 1329
US-11-101-244-1462725/c
; Sequence 1462725, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1462725
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1462725
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1428 UAAAGCGAAAAGCAUGUCC 1446
Db 19 TAAAGCAAGAGGATGTC 1

```
RESULT 1330
US-11-101-244-1462771/c
; Sequence 1462771, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1462771
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1462771
```

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1427 CUAGCGAAAAGCAUGUC 1445
Db 19 CTAAGCAAGAGGATGTC 1

RESULT 1331

US-11-101-244-1466198/c
; Sequence 1466198, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1466198
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1466198

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 38 UUCGAACAGCAGCUCUC 56
::|||:|||:|:|:|:|:|:|
Db 19 TTCCAAATACCACTCTC 1

RESULT 1332

US-11-101-244-1496063
; Sequence 1496063, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1496063
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1496063

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1628 GCUAGCUCUGGCAACAA 1646
|||||:|||:|:|:|:|:|:|
Db 1 GCUAGCUCUGCUCACAA 19

RESULT 1333

US-11-101-244-1526168/c
; Sequence 1526168, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1526168
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1526168

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 47.4%; Pred. No. 8.1e+02;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

Qy 616 UUCUGCAUACUUGUG 634
::|||:|||:|:|:|:|:|:|
Db 19 TTCTGGAACTCTTCTG 1

RESULT 1334

US-11-101-244-1540139/c
; Sequence 1540139, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1540139
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1540139

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.1e+02;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 43 AACAUAGCUCUCUGCA 61
|||||:|||:|:|:|:|:|:|
Db 19 AACATCAGCACTTTCGA 1

RESULT 1335

```
US-11-101-244-1555890/c
; Sequence 1555890, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1555890
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1555890

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1458 GAAGAAAGCGGCCGAGACC 1476
Db 19 GATGAAGTGCCGAGACC 1

RESULT 1336
US-11-101-244-1567851/c
; Sequence 1567851, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1567851
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1567851

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 206 UCUUACGCGUUCUUAAC 224
Db 19 TCTTCACTCCTATCTTCAC 1

RESULT 1337
US-11-101-244-1571143/c

; Sequence 1571143, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1571143
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1571143

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 38 UUCAACACUACGUCUCUC 56
Db 19 TTTCAACATCAGTCTCTC 1

RESULT 1338
US-11-101-244-1586104/c
; Sequence 1586104, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1586104
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1586104

Query Match
Best Local Similarity 0.9%; Score 15.8; DB 1; Length 19;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 40 CCAACACGAGCUCUCUCU 58
Db 19 CCAAGATGAGCTCTCTC 1

RESULT 1339
US-11-101-244-1586107/c
; Sequence 1586107, Application US/11101244
```

```
Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1586107
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1586107
```

```
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 42 AAACAUCAGCUCUCUCUG 60
Db 19 AAAGATGAGCTCTCTCTG 1
```

```
RESULT 1340
US-11-101-244-1586158/C
; Sequence 1586158, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1586158
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1586158
```

```
Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.1e+02;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 41 CAACAUCAGCUCUCUCUG 59
Db 19 CAAGAATAGCTCTCTCTG 1
```

```
RESULT 1341
US-09-877-478-1123/C
; Sequence 1123, Application US/09877478
; Publication No. US20030068301A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Draper, Kenneth
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Morrissey, Dave
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
; FILE REFERENCE: MBHB00-845-H (400/029)
; CURRENT APPLICATION NUMBER: US/09/877,478
; CURRENT FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: US 07/882,712
; PRIOR FILING DATE: 1992-05-14
; PRIOR APPLICATION NUMBER: US 09/531,025
; PRIOR FILING DATE: 2000-03-20
; PRIOR APPLICATION NUMBER: US 09/636,385
; PRIOR FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: US 09/696,347
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 08/193,627
; PRIOR FILING DATE: 1994-02-07
; PRIOR APPLICATION NUMBER: US 08/433,993
; PRIOR FILING DATE: 1995-05-04
; PRIOR APPLICATION NUMBER: US 08/434,504
; PRIOR FILING DATE: 1995-05-04
; PRIOR APPLICATION NUMBER: US 09/436,430
; PRIOR FILING DATE: 1999-11-08
; NUMBER OF SEQ ID NOS: 6586
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1123
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Hepatitis B virus
US-09-877-478-1123
```

```
Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 7.3e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1528 AUGGUCUGGUGAACAC 1544
Db 17 ATGGTCTGTGTACAC 1
```

```
RESULT 1342
US-09-877-478-1124/C
; Sequence 1124, Application US/09877478
; Publication No. US20030068301A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Draper, Kenneth
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Morrissey, Dave
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
; FILE REFERENCE: MBHB00-845-H (400/029)
; CURRENT APPLICATION NUMBER: US/09/877,478
; CURRENT FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: US 07/882,712
; PRIOR FILING DATE: 1992-05-14
; PRIOR APPLICATION NUMBER: US 09/531,025
; PRIOR FILING DATE: 2000-03-20
; PRIOR APPLICATION NUMBER: US 09/636,385
; PRIOR FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: US 09/696,347
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 08/193,627
; PRIOR FILING DATE: 1994-02-07
; PRIOR APPLICATION NUMBER: US 08/433,993
; PRIOR FILING DATE: 1995-05-04
; PRIOR APPLICATION NUMBER: US 08/434,504
; PRIOR FILING DATE: 1995-05-04
; PRIOR APPLICATION NUMBER: US 09/436,430
; PRIOR FILING DATE: 1999-11-08
```

NUMBER OF SEQ ID NOS: 6586
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1124
LENGTH: 17
TYPE: RNA
ORGANISM: Hepatitis B virus
US-09-877-478-1124

Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 7.3e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1527 CAUGGUCUGUGAACA 1543
Db 17 CATGGTCTGTGAACA 1

RESULT 1343
US-10-342-902-1123/c
Sequence 1123, Application US/10342902
Publication No. US20040054156A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwigen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: 400/075 (MEHB00-845-1)
CURRENT APPLICATION NUMBER: US/10/342,902
CURRENT FILING DATE: 2003-01-15
PRIOR APPLICATION NUMBER: US 09/877,478
PRIOR FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/696,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6592
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1123
LENGTH: 17
TYPE: RNA
ORGANISM: Hepatitis B virus
US-10-342-902-1123

Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 7.3e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1528 AUGGUCUGUGAACA 1544
Db 17 ATGGTCTGTGAACA 1

RESULT 1344
US-10-342-902-1124/c
Sequence 1124, Application US/10342902
Publication No. US20040054156A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwigen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication

FILE REFERENCE: 400/075 (MEHB00-845-1)
CURRENT APPLICATION NUMBER: US/10/342,902
CURRENT FILING DATE: 2003-01-15
PRIOR APPLICATION NUMBER: US 09/877,478
PRIOR FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/696,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6592
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1124
LENGTH: 17
TYPE: RNA
ORGANISM: Hepatitis B virus
US-10-342-902-1124

Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 7.3e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1527 CAUGGUCUGUGAACA 1543
Db 17 CATGGTCTGTGAACA 1

RESULT 1345
US-10-669-841-1123/c
Sequence 1123, Application US/10669841
Publication No. US20040127446A1
GENERAL INFORMATION:
APPLICANT: Sigma Therapeutics, Inc.
APPLICANT: Lawrence, Blatt
APPLICANT: Dennis, Macejak
APPLICANT: James, McSwigen
APPLICANT: David, Morrissey
APPLICANT: Pamela, Pavco
APPLICANT: Patrice, Lee
APPLICANT: Kenneth, Draper
APPLICANT: Elisabeth, Roberts
TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED INHIBITION OF HEPATITIS B VIRUS AND HEP.
FILE REFERENCE: 400/042US (MEHB02-249-B)
CURRENT APPLICATION NUMBER: US/10/669,841
CURRENT FILING DATE: 2003-09-23
PRIOR APPLICATION NUMBER: PCT/US02/09187
PRIOR FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: US 60/296,876
PRIOR FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: US 60/335,059
PRIOR FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: US 60/337,055
PRIOR FILING DATE: 2001-12-05
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 09/817,879
PRIOR FILING DATE: 2001-03-26
PRIOR APPLICATION NUMBER: US 09/740,332
PRIOR FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: US 09/611,931
PRIOR FILING DATE: 2000-07-07
PRIOR APPLICATION NUMBER: US 09/504,321
PRIOR FILING DATE: 2000-02-15

Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 16207
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 1123
LENGTH: 17
TYPE: RNA
ORGANISM: Hepatitis B Virus
US-10-669-841-1123

Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 7.3e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1528 AUGGUCUGUGAACAC 1544
DB 17 ATGGTGTGTGTAACAC 1

RESULT 1346
US-10-669-841-1124/C
Sequence 1124, Application US/10669841
Publication No. US20040127446A1
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Lawrence, Blatt
APPLICANT: Dennis, Macejak
APPLICANT: James, McSwigen
APPLICANT: David, Morrissey
APPLICANT: Pamela, Pavco
APPLICANT: Patricia, Lee
APPLICANT: Kenneth, Draper
APPLICANT: Elisabeth, Roberts

TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED INHIBITION OF HEPATITIS B VIRUS AND HEP
FILE REFERENCE: 400/042US (MEHB02-249-E)
CURRENT FILING DATE: 2003-09-23
PRIOR FILING DATE: 2002-03-26
PRIOR FILING DATE: 2002-03-26
PRIOR FILING DATE: 2001-06-08
PRIOR FILING DATE: 2001-10-24
PRIOR FILING DATE: 2001-12-05
PRIOR FILING DATE: 2002-02-20
PRIOR FILING DATE: 2002-03-11
PRIOR FILING DATE: 2001-03-26
PRIOR FILING DATE: 2000-12-18
PRIOR FILING DATE: 2000-07-07
PRIOR FILING DATE: 2000-02-15
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 16207
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 1124
LENGTH: 17
TYPE: RNA
ORGANISM: Hepatitis B Virus
US-10-669-841-1124

Query Match 0.9%; Score 15.4; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 7.3e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1527 CAUGGUCUGUGAACAC 1543
DB 17 CATGGTGTGTGTAACAC 1

RESULT 1347.
US-10-449-801A-2/C
Sequence 2, Application US/10449801A
Publication No. US20040058314A1
GENERAL INFORMATION:
APPLICANT: HE, Ming Liang
APPLICANT: KUNG, Hsiang Fu
APPLICANT: LIN, Marie Chia Mi

TITLE OF INVENTION: A New Method For the Quantification of HBV ccDNA by Real Time PC
FILE REFERENCE: HE et al-1
CURRENT FILING DATE: 2003-05-29
PRIOR FILING DATE: 2002-05-29
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 2
LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
US-10-449-801A-2

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 8e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1527 CAUGGUCUGUGAACAC 1543
DB 17 CATGGTGTGTGTAACAC 1

RESULT 1348
US-10-740-926-187
Sequence 187, Application US/10740926
Publication No. US20040219574A1
GENERAL INFORMATION:
APPLICANT: Belmont, Claudia
APPLICANT: Shalder, Jiri
TITLE OF INVENTION: METHOD FOR SPECIFIC FAST DETECTION OF
FILE REFERENCE: MAIWAMA.005C1
CURRENT FILING DATE: 2003-12-18
PRIOR FILING DATE: 2002-06-19
PRIOR FILING DATE: 2001-06-19
NUMBER OF SEQ ID NOS: 442
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 187
LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Probe for the detection of L. buchneri
US-10-740-926-187

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 8e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 153 UCCAGACGGUACACCG 169
DB 1 TCCATACGGTACACCG 17

RESULT 1349
US-10-310-914A-44756
Sequence 44756, Application US/10310914A

```
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44756
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-44756

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 813 UGCGACAGAGCGCAGAGA 829
Db 1 UGCGAUAAGCGCAGAGA 17

RESULT 1350
US-10-310-914A-101513
; Sequence 101513, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 101513
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-101513

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 152 CUCCAGAGCGUACCAACC 168
Db 1 CUCCAGAGCGUACCAACC 17

RESULT 1351
US-10-310-914A-114172
; Sequence 114172, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114172
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human

US-10-310-914A-114172
; Sequence 114173, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114173
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-114173

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 797 CUGGCCUUCAGCCUCUCU 813
Db 1 CUGGCCUUCAGCCUCUCU 17

RESULT 1352
US-10-310-914A-114173
; Sequence 114173, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114173
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-114173

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 797 CUGGCCUUCAGCCUCUCU 813
Db 1 CUGGCCUUCAGCCUCUCU 17

RESULT 1353
US-10-310-914A-159541
; Sequence 159541, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 159541
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-159541

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1748 AGCGCGACCCCGAGCAG 1764
Db 2 AGCGCGACCCCGAGCAG 18

RESULT 1354
US-10-310-914A-172099/C
; Sequence 172099, Application US/10310914A
; Publication No. US20060003322A1
```

```
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ TITLE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 172099
/ LENGTH: 18
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-172099
```

```
Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 18;
Pred. No. 8e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 1; Mismatches 1;
```

```
QY 1341 GGGUAGAGCAGCGCA 1357
DB 17 GGGTAGAGCAGCGCA 1
```

```
RESULT 1355
US-10-310-914A-254139
/ Sequence 254139, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ TITLE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 254139
/ LENGTH: 18
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-254139
```

```
Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 18;
Pred. No. 8e+02; 1; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 1;
```

```
QY 925 GGGCGGCGCCACUUCUG 941
DB 2 GGGCGGCGCCACUUCUG 18
```

```
RESULT 1356
US-10-310-914A-284580
/ Sequence 284580, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ TITLE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 284580
/ LENGTH: 18
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-284580
```

```
Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 18;
Pred. No. 8e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 1;
```

```
QY 994 AGCAGCAGUGACGACUG 1010
DB 2 AGCAGCAGUGACGACUG 18
```

```
RESULT 1357
US-10-310-914A-630021/C
/ Sequence 630021, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ TITLE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 630021
/ LENGTH: 18
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-630021
```

```
Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 18;
Pred. No. 8e+02; 1; Indels 0; Gaps 0;
Matches 13; Conservative 3; Mismatches 1;
```

```
QY 1165 CUCGAGUGCCUAGCA 1181
DB 17 CUCGAGUGCCUAGCA 1
```

```
RESULT 1358
US-10-310-914A-738321/C
/ Sequence 738321, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Kiyazat
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ TITLE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 738321
/ LENGTH: 18
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-738321
```

```
Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 18;
Pred. No. 8e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 1; Mismatches 1;
```

```
QY 1220 AGCUGAGGCCGACAG 1236
DB 17 AGCUGAGGCCGACAG 1
```

```
RESULT 1359
US-10-310-914A-793976
/ Sequence 793976, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
```

```

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 793976
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-793976

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1155 AUGGACAACTGCGCAG 1171
Db 1 AUAAGACACCGCAG 17

RESULT 1360
US-10-310-914A-907246/C
; Sequence 907246, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 907246
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-907246

Query Match
Best Local Similarity 76.5%; Score 15.4; DB 1; Length 18;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1182 GGAGCTGTGGATGTGG 1198
Db 17 GGAGCTGTGGATGTGG 1

RESULT 1361
US-10-310-914A-933182/C
; Sequence 933182, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 933182
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-933182

Query Match
Best Local Similarity 76.5%; Score 15.4; DB 1; Length 18;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1182 GGAGCTGTGGATGTGG 1198
Db 17 GGAGCTGTGGATGTGG 1

RESULT 1362
US-10-310-914A-958139/C
; Sequence 958139, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 958139
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-958139

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1709 AGCAGCAUACCAAGCAG 1725
Db 18 AGCAGCAUACCAAGCAG 2

RESULT 1363
US-10-310-914A-1087769/C
; Sequence 1087769, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1087769
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1087769

Query Match
Best Local Similarity 70.6%; Score 15.4; DB 1; Length 18;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 225 GGGCAUCCUGGCCUUGG 241
Db 18 GGGCAUCCUGGCCUUGG 2

RESULT 1364
US-10-310-914A-1267042/C
; Sequence 1267042, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```



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; APPLICANT: Shiller, Kiyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1267042
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-1267042

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```

Query Match      0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 41.2%; Pred. No. 8e+02;
Matches 7; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

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Qy      738 UAUACUUAUUUAUACU 754
Db      18 TATGATTATTATCTACT 2

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RESULT 1365
; US-10-349-143-6934
; Sequence 6934, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 6934
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-21533 for SEQ 3000,
; US-10-349-143-6934

```

```

Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

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```

Qy      38 UUCGAACUUCGCTCC 54
Db      3 TTCCAAACATCACCCTCC 19

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RESULT 1366
; US-10-349-143-7458
; Sequence 7458, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: GENSET.020CPI

```

```

; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 7458
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-4874 for SEQ 3524,
; US-10-349-143-7458

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```

Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 8.7e+02;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

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Qy      684 GCCCACCACUACUUCUUG 700
Db      1 GCCCACCCTTACTTTTG 17

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RESULT 1367
; US-10-310-914A-313799
; Sequence 313799, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313799
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-313799

```

```

Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      1706 GCAAGCAGCAGUACGAG 1722
Db      2 GCAAGCAGCAGCAGCAG 18

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RESULT 1368
; US-10-310-914A-344052
; Sequence 344052, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kiyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3

```

SEQ ID NO 344052
LENGTH: 19
TYPE: RNA
ORGANISM: Human
US-10-310-914A-344052

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 535 AACGACACACAAAGG 551
DB 1 AACGACACACAAAGG 17

RESULT 1369
US-10-310-914A-446813/c
Sequence 446813, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shlier, Kivuzat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 446813
LENGTH: 19
TYPE: RNA
ORGANISM: Human
US-10-310-914A-446813

Query Match
Best Local Similarity 82.4%; Score 15.4; DB 1; Length 19;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1175 CTGAGAGAGAGCTGGG 1191
DB 18 CTGAGAGAGAGCTGGG 2

RESULT 1370
US-10-310-914A-598899/c
Sequence 598899, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shlier, Kivuzat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 598899
LENGTH: 19
TYPE: RNA
ORGANISM: Human
US-10-310-914A-598899

Query Match
Best Local Similarity 52.9%; Score 15.4; DB 1; Length 19;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1358 CTCUACUCUCUCUCUC 1374
DB 19 CTCUACUCUCUCUCUC 3

RESULT 1371
US-10-310-914A-1061923
Sequence 1061923, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shlier, Kivuzat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1061923
LENGTH: 19
TYPE: RNA
ORGANISM: Human
US-10-310-914A-1061923

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 816 GACAGAGCAGACAG 832
DB 2 GACAGAGCAGACAG 18

RESULT 1372
US-10-310-914A-1157469/c
Sequence 1157469, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shlier, Kivuzat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1157469
LENGTH: 19
TYPE: RNA
ORGANISM: Human
US-10-310-914A-1157469

Query Match
Best Local Similarity 88.2%; Score 15.4; DB 1; Length 19;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1709 AGCAGACGACGACG 1725
DB 18 AGCAGACGACGACG 2

RESULT 1373
US-11-083-784-96831
Sequence 96831, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmoon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 1349905
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18

```
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 96831
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-96831

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 658 GAGUCGUCGAGUCGAGU 674
Db 2 GAGUCGUCGAGUCGAGU 18

RESULT 1374
US-11-083-784-97156
; Sequence 97156, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmaco, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 97156
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97156

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 609 CAUCUGUGGCGCAU 625
Db 1 CAUCUGUGGCGCAGU 17

RESULT 1375
US-11-083-784-97216
; Sequence 97216, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmaco, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 97216
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-97216

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1522 AACCAUCGUGGUGG 1538
Db 2 AACCAUCGUGGUGG 18

RESULT 1376
US-11-083-784-103182/C
; Sequence 103182, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmaco, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 103182
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-103182

Query Match
Best Local Similarity 47.1%; Score 15.4; DB 1; Length 19;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

Qy 581 UCAUCGUCGUGGCU 597
Db 19 TCATCTCTGTGCTCTT 3

RESULT 1377
US-11-083-784-103190/C
; Sequence 103190, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmaco, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

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; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 103190
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-103190

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 47.1%; Pred. No. 8.7e+02;
Matches      8; Conservative      1; Indels      0; Gaps      0;

QY      581 UCAUCUCUUCUUCUUCU 597
      18 TCATCTCCTTGCTCCTT 2

RESULT 1378
US-11-083-784-131581
; Sequence 131581, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 131581
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-131581

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches      16; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      946 ACAACCAAGAGCUGGAA 962
      3 AGAACCAAGAGCUGGAA 19

RESULT 1379
US-11-083-784-164314/C
; Sequence 164314, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
```

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; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 164314
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-164314

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 8.7e+02;
Matches     14; Conservative      2; Mismatches      1; Indels      0; Gaps      0;

QY      911 ACAGAGAGAGUAGGC 927
      17 ACAGAGAGAGATATGTC 1

RESULT 1380
US-11-083-784-220921
; Sequence 220921, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 220921
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-220921

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches     16; Conservative      0; Mismatches      1; Indels      0; Gaps      0;

QY      1664 UCAAGAGUCGUCGUCG 1680
      1 UGAAGAGUCGUCGUCG 17

RESULT 1381
US-11-083-784-234743/C
; Sequence 234743, Application US/11083784
```

```
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 234743
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-234743
```

```
Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 8.7e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1646 AAACAUCGAAACACU 1662
      ||||:|||||:
DB      18 AAACATTCGAAACACT 2
```

```
RESULT 1382
US-11-083-784-234762/c
Sequence 234762, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 234762
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-234762
```

```
Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 8.7e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1646 AAACAUCGAAACACU 1662
      ||||:|||||:
DB      19 AAACATTCGAAACACT 3
```

```
RESULT 1383
US-11-083-784-240931/c
Sequence 240931, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 240931
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-240931
```

```
Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 8.7e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1198 GACUUGAGAGAAAGC 1214
      ||||:|||||:
DB      19 GACCTGAGAGAAAGC 3
```

```
RESULT 1384
US-11-083-784-259725/c
Sequence 259725, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
CURRENT FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 259725
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-259725
```

```
Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 47.1%; Pred. No. 8.7e+02;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      616 UUCUGGCAUACUUCU 632
      ::||:|||||:
DB
```

Db 19 TTCGGGAATCTTGT 3

```
RESULT 1385
US-11-083-784-259762/c
; Sequence 259762, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 259762
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-259762
```

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 47.1%; Pred. No. 8.7e+02;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

QY 616 UUCGCAUACUUGU 632
Db 18 TTCGGGAATCTTGT 2

```
RESULT 1386
US-11-083-784-289369
; Sequence 289369, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 289369
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-289369
```

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1655 GAACCACTTUCAGAAG 1671
Db 3 GAUCCACUUCAGAAG 19

```
RESULT 1387
US-11-083-784-345636
; Sequence 345636, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 345636
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-345636
```

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 993 CAGCAGCAGUGACAGU 1009
Db 2 CAGCAGCAGUGAGAGU 18

```
RESULT 1388
US-11-083-784-394748/c
; Sequence 394748, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 394748
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-394748
```

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 8.7e+02;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 479 UGUCUACGUCUUCAG 495
:|||||:|
DB 18 TGCTCATGCTTCTGAC 2

RESULT 1389
US-11-083-784-430047/c
; Sequence 430047, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2003-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 430047
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-430047

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 664 UUCAUUCAGUCCUCAG 680
:|||||:|
DB 18 TTCATTCACTCTCTG 2

RESULT 1390
US-11-083-784-430081/c
; Sequence 430081, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 430081
; LENGTH: 19
; TYPE: RNA

; ORGANISM: Homo sapiens
US-11-083-784-430081

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 664 UUCAUUCAGUCCUCAG 680
:|||||:|
DB 17 TTCATTCACTCTCTG 1

RESULT 1391
US-11-083-784-430146/c
; Sequence 430146, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 430146
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-430146

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 664 UUCAUUCAGUCCUCAG 680
:|||||:|
DB 18 TTCATTCACTCTCTG 2

RESULT 1392
US-11-083-784-430174/c
; Sequence 430174, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary

```
; SEQ ID NO 430174
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-430174
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      664 UUCAUUCAGUCCUCGAG 680
Db      17 TTCATTCAGTCTCTCTG 1
```

```
RESULT 1393
US-11-083-784-440481/c
; Sequence 440481, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440481
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-440481
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 8.7e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1200 CUGGAGAGGAAGCCG 1216
Db      17 CTTGGAAGGAAGCCG 1
```

```
RESULT 1394
US-11-083-784-496009
; Sequence 496009, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
```

```
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 496009
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-496009
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      635 GAAAGGAACTUGGCU 651
Db      1 GAAAGGAACTUGGCU 17
```

```
RESULT 1395
US-11-083-784-496109
; Sequence 496109, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 496109
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-496109
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      635 GAAAGGAACTUGGCU 651
Db      1 GAAAGGAACTUGGCU 17
```

```
RESULT 1396
US-11-083-784-496206
; Sequence 496206, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
```



```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 496206
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-496206
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      635 GAAAGGAACTUGGCU 651
      |||||
Db      1 GAAAGGAACTUGGCU 17
```

```
RESULT 1397
US-11-083-784-498533
; Sequence 498533, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 498533
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498533
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      775 GAAAGCGUACCAAGA 791
      |||||
Db      1 GAAAGCGUACCAAGA 17
```

```
RESULT 1398
US-11-083-784-498633
; Sequence 498633, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
```

```
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 498633
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498633
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      775 GAAAGCGUACCAAGA 791
      |||||
Db      1 GAAAGCGUACCAAGA 17
```

```
RESULT 1399
US-11-083-784-498733
; Sequence 498733, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 498733
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498733
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      775 GAAAGCGUACCAAGA 791
      |||||
Db      1 GAAAGCGUACCAAGA 17
```

```
RESULT 1400
US-11-083-784-522568/C
; Sequence 522568, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 522568
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-522568

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 8.7e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      944 UCACACCAAGAGCUGG 960
DB      19 TCACATCCAGAGCTGG 3

RESULT 1401
US-11-083-784-535148
; Sequence 535148, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 535148
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-535148

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1120 CACAGACCAUCCUCA 1136
DB      2 CACAGGCCAUCCUCA 18

RESULT 1402
US-11-083-784-552201
; Sequence 552201, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```

; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 552201
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-552201

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1458 GAAGAAAGCGCCCGA 1474
DB      1 GAAGAAAGCGCCCGA 17

RESULT 1403
US-11-083-784-552292
; Sequence 552292, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 552292
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-552292

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1458 GAAGAAAGCGCCCGA 1474
DB      2 GAAGAAAGCGCCCGA 18

RESULT 1404
US-11-083-784-574443
; Sequence 574443, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 574443
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-574443
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1178 AGGAGAGCGUGGGGANG 1194
DB 3 AGGAGAGCGUGGUGANG 19
```

```
RESULT 1405
US-11-083-784-581822/c
/ Sequence 581822, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 581822
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-581822
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 663 CUUCAUUCAGUUCUCA 679
DB 19 CTTCAATCAGTTTCTCA 3
```

```
RESULT 1406
US-11-083-784-581875/c
```

```
/ Sequence 581875, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 581875
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-581875
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 663 CUUCAUUCAGUUCUCA 679
DB 18 CTTCAATCAGTTTCTCA 2
```

```
RESULT 1407
US-11-083-784-581922/c
/ Sequence 581922, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 581922
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-581922
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 663 CUUCAUUCAGUUCUCA 679
DB 19 CTTCAATCAGTTTCTCA 3
```

RESULT 1408
US-11-083-784-581978/c
; Sequence 581978, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 581978
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-581978

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 663 CUUCAUUCAGUUCUCCA 679
Db 18 CTTCAATCAGTTCTCA 2

RESULT 1409
US-11-083-784-588110/c
; Sequence 588110, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 588110
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-588110

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 8.7e+02;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 107 AUUUCGCGACUACAUAU 123

Db 19 ATTCCGACACTTCAT 3

RESULT 1410
US-11-083-784-596511/c
; Sequence 596511, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 596511
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-596511

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1516 CCUAACAGACUACUGU 1532
Db 19 CCATACACATCTCGGT 3

RESULT 1411
US-11-083-784-621759
; Sequence 621759, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 621759
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-621759

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 973 GAGCAGUGGACCAAGA 989
Db 3 GAGGAGUGGACCAAGA 19

RESULT 1412
US-11-083-784-653624/C
; Sequence 653624, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 653624
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-653624

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1647 AACAUUCAGAACCACTU 1663
Db 19 AACATTCAGAACCACTT 3

RESULT 1413
US-11-083-784-653627/C
; Sequence 653627, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 653627
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-653627

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1647 AACAUUCAGAACCACTU 1663
Db 18 AACATTCAGAACCACTT 2

RESULT 1414
US-11-083-784-702236
; Sequence 702236, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 702236
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-702236

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 764 AUAAGAAACUGAAAG 780
Db 1 AUAAGAAACUGAAG 17

RESULT 1415
US-11-083-784-812530
; Sequence 812530, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 812530
; LENGTH: 19

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; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-812530

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1383 CACUCUGGCCAAGAGGU 1399
Db 2 CACACUGGCCAAGAGGU 18

RESULT 1416
US-11-083-784-826194
; Sequence 826194, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 826194
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-826194

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1177 GAGGAGGAGCUGGGAGU 1193
Db 2 GAGGAGGAGCUGGGAGU 18

RESULT 1417
US-11-083-784-913509/C
; Sequence 913509, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
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; SOFTWARE: Proprietary
; SEQ ID NO 913509
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-913509

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Qy 355 GUCAUUCAGAUGAUCU 371
Db 18 GTCATTCAATCAATCT 2

RESULT 1418
US-11-083-784-929681/C
; Sequence 929681, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 929681
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-929681

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1458 GAAGAAAGGCGCCAGA 1474
Db 19 GAAGAAAGGCGCCAGA 3

RESULT 1419
US-11-083-784-946340/C
; Sequence 946340, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

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; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 946340
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-946340

Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 8.7e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      883 CUUACACGACGACGACAU 899
DB      17 CTTCAACAGCAGCAAGTAT 1

RESULT 1420
US-11-083-784-963463
; Sequence 963463, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 963463
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-963463

Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      952 AAGAGCUGGAAACCCAG 968
DB      2 AAGAGCUGGAAACCCAG 18

RESULT 1421
US-11-083-784-968672/C
; Sequence 968672, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
```

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; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 968672
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-968672

Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1308 CACAGCTAAGACUUCUG 1324
DB      18 CACAGCTAAGATTCTG 2

RESULT 1423
US-11-083-784-1062866
; Sequence 1062866, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 968744
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-968744

Query Match      0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1308 CACAGCTAAGACUUCUG 1324
DB      18 CACAGCTAAGATTCTG 2

RESULT 1422
US-11-083-784-968744/C
; Sequence 968744, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 968744
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-968744
```

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; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1062866
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1062866

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 143 AUUUCUCCUCCAGAC 159
DB 2 AUUUCACUCCUCCAGAC 18

RESULT 1424
US-11-083-784-1085933
; Sequence 1085933, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1085933
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1085933

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1262 CAAAAGCUCUCCAG 1278
DB 2 CACAAAGCUCUCCAG 18

RESULT 1425
US-11-083-784-1092663
; Sequence 1092663, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

```

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1092663
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1092663

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 992 ACAGCAGAGUACAGU 1008
DB 3 ACAGCAGAGUACAGU 19

RESULT 1426
US-11-083-784-1092769
; Sequence 1092769, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1092769
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1092769

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 992 ACAGCAGAGUACAGU 1008
DB 3 ACAGCAGAGUACAGU 19

RESULT 1427
US-11-083-784-1136074
; Sequence 1136074, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
```



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; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1136074
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1136074
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Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1519 UACACAUCAUGGUCU 1535
Db      3 UACACAUCCUGGUCU 19
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RESULT 1428
US-11-083-784-1153902
; Sequence 1153902, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1153902
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1153902
```

```

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      993 CAGCAGCAGUACAGU 1009
Db      1 CAGCAGCAGUCCAGU 17
```

```

RESULT 1429
US-11-083-784-1232377
; Sequence 1232377, Application US/11083784
; Publication No. US20050245475A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1232377
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1232377
```

```

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      886 CAACGCAAGCAUGAA 902
Db      1 CAACAGCUAAGCAUGAA 17
```

```

RESULT 1430
US-11-083-784-1237707
; Sequence 1237707, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1237707
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1237707
```

```

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1218 CAGCUGCAGGCCAGA 1234
Db      2 CAGAGUCAGGCCAGA 18
```

```

RESULT 1431
```

```
US-11-083-784-1287587
; Sequence 1287587, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1287587
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1287587
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      407 UAGGGAACUUGGCGCCUUG 423
      |||||
Db      2 UAGGGAACUUGGCGCCUUG 18
```

```
RESULT 1432
US-11-083-784-1287626
; Sequence 1287626, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1287626
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1287626
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      407 UAGGGAACUUGGCGCCUUG 423
      |||||
Db      1 UAGGGAACUUGGCGCCUUG 17
```

```
RESULT 1433
US-11-083-784-1297887/C
; Sequence 1297887, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1297887
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1297887
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1358 CUCUACCCUCGUCUCCUUC 1374
      ||:|:|:|:|:|:|:|:|:|:|
Db      18 CTCCTACTCTGTCCTTC 2
```

```
RESULT 1434
US-11-083-784-1298560
; Sequence 1298560, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1298560
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1298560
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

Qy 1271 UCUCCAAGCUCUCCAU 1287
|||
Db 1 UCACCAAGCUCUCCAU 17

RESULT 1435
US-11-083-784-1307050

/ Sequence 1307050, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:

/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1307050
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1307050

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1360 CUACUCUCUCCUCAA 1376
|||
Db 3 CCACUCUCUCCUCAA 19

RESULT 1436
US-11-083-784-1307134

/ Sequence 1307134, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:

/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1307134
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1307134

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1360 CUACUCUCUCCUCAA 1376
|||
Db 3 CCACUCUCUCCUCAA 19

RESULT 1437
US-11-083-784-1324599

/ Sequence 1324599, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1324599
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1324599

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 577 UGGGUCACUCCUCCU 593
|||
Db 1 UGGGUCACUCCUCCU 17

RESULT 1438
US-11-083-784-1333743/C

/ Sequence 1333743, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:

/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ PRIOR FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1333743
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens

US-11-083-784-1333743

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 58.8%; Pred. No. 8.7e+02;

Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 666 CAUUCAGUCCUCCAGUG 682

DB 18 CATTGAGTCTCTTAGTG 2

RESULT 1439

US-11-083-784-1384793

Sequence 1384793, Application US/11083784

Publication No. US20050245475A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/083,784

FILE FILING DATE: 2005-03-18

PRIOR APPLICATION NUMBER: US/10/714,333

PRIOR FILING DATE: 2003-11-14

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 1384793

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-083-784-1384793

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 94.1%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1655 GAACCACTUUCAGAGUG 1671

DB 3 GCACCACTUUCAGAGUG 19

RESULT 1440

US-11-083-784-1412484/c

Sequence 1412484, Application US/11083784

Publication No. US20050245475A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/083,784

FILE FILING DATE: 2005-03-18

PRIOR APPLICATION NUMBER: US/10/714,333

PRIOR FILING DATE: 2003-11-14

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 1412484

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-083-784-1412484

QY 305 UCAACAACUACUCCUC 321

DB 19 TCAACAACUACUCCUC 3

RESULT 1441

US-11-083-784-1412498/c

Sequence 1412498, Application US/11083784

Publication No. US20050245475A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/083,784

FILE FILING DATE: 2005-03-18

PRIOR APPLICATION NUMBER: US/10/714,333

PRIOR FILING DATE: 2003-11-14

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 1412498

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-083-784-1412498

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 64.7%; Pred. No. 8.7e+02;

Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 305 UCAACAACUACUCCUC 321

DB 18 TCAACAACUACUCCUC 2

RESULT 1442

US-11-083-784-1412508/c

Sequence 1412508, Application US/11083784

Publication No. US20050245475A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khvorova, Anastasia

APPLICANT: Reynolds, Angela

APPLICANT: Leake, Devin

APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/083,784

FILE FILING DATE: 2005-03-18

PRIOR APPLICATION NUMBER: US/10/714,333

PRIOR FILING DATE: 2003-11-14

PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426,137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 1412484

NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO: 1412508
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1412508

Query Match
Best Local Similarity 64.7%; Score 15.4; DB 1; Length 19;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 305 UCAACACUACUCCUCC 321
Db 17 TCACACACTACTCTTC 1

RESULT 1443
US-11-083-784-1479942/c
Sequence 1479942, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
PRIOR FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO: 1479942
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1479942

Query Match
Best Local Similarity 76.5%; Score 15.4; DB 1; Length 19;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 41 CAAACUACGUCUCC 57
Db 18 CAAACTCAGCTCTCC 2

RESULT 1444
US-11-083-784-1563128/c
Sequence 1563128, Application US/11083784
Publication No. US20050245475A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/083,784
PRIOR FILING DATE: 2005-03-18
PRIOR APPLICATION NUMBER: US/10/714,333
PRIOR FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO: 1563128
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-083-784-1563128

Query Match
Best Local Similarity 47.1%; Score 15.4; DB 1; Length 19;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

Qy 714 UGCUUUUANAUCGCG 730
Db 18 TGCTTATATATGCTG 2

RESULT 1445
US-11-101-244-96831
Sequence 96831, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
PRIOR FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO: 96831
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-96831

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 658 GAGUGCUCAUUCAGU 674
Db 2 GAGUGCUCAUUCAGU 18

RESULT 1446
US-11-101-244-97156
Sequence 97156, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
PRIOR FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10

```
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97156
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97156
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      609 CAUCUCGUUCGCGCAU 625
DB      1 CAUCUCGUUCGCGCAU 17
```

```
RESULT 1447
US-11-101-244-97216
; Sequence 97216, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 97216
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-97216
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1522 AACCAUCAGGUCUGCU 1538
DB      2 AACCAUCAGGUCUGCU 18
```

```
RESULT 1448
US-11-101-244-103182/C
; Sequence 103182, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
```

```
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 103182
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-103182
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 47.1%; Pred. No. 8.7e+02;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      581 UCAUCUCUUCUUCUCCU 597
DB      19 TCATCTCTTGTCCTT 3
```

```
RESULT 1449
US-11-101-244-103190/C
; Sequence 103190, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 103190
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-103190
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 47.1%; Pred. No. 8.7e+02;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      581 UCAUCUCUUCUUCUCCU 597
DB      18 TCATCTCTTGTCCTT 2
```

```
RESULT 1450
US-11-101-244-131581
; Sequence 131581, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
```

```
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 131581
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-131581
```

```
Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 946 ACAACCAAGACGCGAA 962
DB 3 AGAACCAAGACGCGAA 19
```

```
RESULT 1451
US-11-101-244-164314/c
; Sequence 164314, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 164314
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-164314
```

```
Query Match
Best Local Similarity 82.4%; Score 15.4; DB 1; Length 19;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 911 ACAGGAGAGUAGGC 927
DB 17 ACAGGAGAGUAGGC 1
```

```
RESULT 1452
US-11-101-244-220921
; Sequence 220921, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
```

```
; SOFTWARE: Proprietary
; SEQ ID NO 220921
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-220921
```

```
Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1664 UCAAGAGGCGCGCG 1680
DB 1 UCAAGAGGCGCGCG 17
```

```
RESULT 1453
US-11-101-244-234743/c
; Sequence 234743, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 234743
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-234743
```

```
Query Match
Best Local Similarity 76.5%; Score 15.4; DB 1; Length 19;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1646 AAACAUUCAGACACU 1662
DB 18 AAACAUUCAGACACU 2
```

```
RESULT 1454
US-11-101-244-234762/c
; Sequence 234762, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
```

```

; SEQ ID NO 234762
;
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-234762

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1646 AAACAUCUAGAACACU 1662
Db      19 AACATTTCAGAAACACT 3

RESULT 1455
US-11-101-244-240931/c
; Sequence 240931, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 240931
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-240931

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1198 GACUCGAGAGAGAAC 1214
Db      19 GACTTCGAGAGAGAAC 3

RESULT 1456
US-11-101-244-259725/c
; Sequence 259725, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 259725
```

```

; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-259725

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

Qy      616 UUCUGGCAUACUUCU 632
Db      19 TTCTGGCAATACTTGT 3

RESULT 1457
US-11-101-244-259762/c
; Sequence 259762, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 259762
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-259762

Query Match
Best Local Similarity 0.9%; Score 15.4; DB 1; Length 19;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

Qy      616 UUCUGGCAUACUUCU 632
Db      18 TTCTGGCAATACTTGT 2

RESULT 1458
US-11-101-244-289369
; Sequence 289369, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 289369
; LENGTH: 19
```



```

; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-289369

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1655 GAACGACUUCAGAGU 1671
Db 3 GAUUCACUUCAGAGU 19

RESULT 1459
US-11-101-244-345636
; Sequence 345636, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 345636
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-345636

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 993 CAGCAGCAGUGACAGU 1009
Db 2 CAGCAGCAGUGAGAGU 18

RESULT 1460
US-11-101-244-394748/C
; Sequence 394748, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 394748
; LENGTH: 19
; TYPE: RNA
```

```

; ORGANISM: Homo sapiens
US-11-101-244-394748

Query Match
Best Local Similarity 58.8%; Score 15.4; DB 1; Length 19;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

Oy 479 UGUCAUCAGUCUUCAG 495
Db 18 TGCTCATCAGCTTGCAC 2

RESULT 1461
US-11-101-244-430047/C
; Sequence 430047, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 430047
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-430047

Query Match
Best Local Similarity 52.9%; Score 15.4; DB 1; Length 19;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Oy 664 UUCAUCAGUCCUCAG 680
Db 18 TTCATTCAGTCTCTCG 2

RESULT 1462
US-11-101-244-430081/C
; Sequence 430081, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 430081
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
```

US-11-101-244-430081

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 664 UUCAUUCAGUUCUCAG 680
DB 17 TTCATTCAGTTCCTCTG 1

RESULT 1463

US-11-101-244-430146/C
; Sequence 430146, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 430146
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-430146

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 664 UUCAUUCAGUUCUCAG 680
DB 18 TTCATTCAGTTCCTCTG 2

RESULT 1464

US-11-101-244-430174/C
; Sequence 430174, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 430174
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-430174

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 664 UUCAUUCAGUUCUCAG 680
DB 17 TTCATTCAGTTCCTCTG 1

RESULT 1465

US-11-101-244-440481/C
; Sequence 440481, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440481
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-440481

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 8.7e+02;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1200 CUUGAGAGGAAAGCCG 1216
DB 17 CTGGAAGGAAAGCCG 1

RESULT 1466

US-11-101-244-496009
; Sequence 496009, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 496009
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-496009

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 635 GAAAGGAACUGGCU 651
Db 1 GAAAGGAACUGGCU 17

RESULT 1467

US-11-101-244-496109
; Sequence 496109, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 496109
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-496109

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 635 GAAAGGAACUGGCU 651
Db 1 GAAAGGAACUGGCU 17

RESULT 1468

US-11-101-244-496206
; Sequence 496206, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 496206
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-496206

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 635 GAAAGGAACUGGCU 651
Db 1 GAAAGGAACUGGCU 17

RESULT 1469

US-11-101-244-498533
; Sequence 498533, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 498533
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-498533

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 775 GAAAGGUAACCAAGA 791
Db 1 GAAAGGUAACCAAGA 17

RESULT 1470

US-11-101-244-498633
; Sequence 498633, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 498633
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-498633

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 775 GAAAGCGUACCAAGA 791

Db 1 GAAAGCGUACCAAGA 17

RESULT 1471

US-11-101-244-498733

; Sequence 498733, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 498733

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-498733

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 94.1%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 775 GAAAGCGUACCAAGA 791

Db 1 GAAAGCGUACCAAGA 17

RESULT 1472

US-11-101-244-522568/c

; Sequence 522568, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 522568

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-522568

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 82.4%; Pred. No. 8.7e+02;

Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 944 UCAACACCAAGCTCG 960

Db 19 TCACATCCAAAGCTGG 3

RESULT 1473

US-11-101-244-535148

; Sequence 535148, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 535148

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-535148

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 94.1%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1120 CACAGCACCAUCCUCA 1136

Db 2 CACAGCCCAUCCUCA 18

RESULT 1474

US-11-101-244-552201

; Sequence 552201, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 552201

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-552201

Query Match 0.9%; Score 15.4; DB 1; Length 19;

Best Local Similarity 94.1%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	1458	GAAGAAAGCGGCCCA	1474
Db	1	GAAGAAAGCAGCCCA	17

```

RESULT 1475
US-11-101-244-552292
: Sequence 552292, Application US/11101244
: Publication No. US20050246794A1
: GENERAL INFORMATION:
: APPLICANT: Dharmacon, Inc.
: APPLICANT: Khvorova, Anastasia
: APPLICANT: Reynolds, Angela
: APPLICANT: Leake, Devin
: APPLICANT: Marshall, William
: APPLICANT: Scaringe, Stephen
: TITLE OF INVENTION: Functional and Hyperfunctional siRNA
: FILE REFERENCE: 1349905
: CURRENT APPLICATION NUMBER: US/11/101.244
: CURRENT FILING DATE: 2005-04-07
: PRIOR APPLICATION NUMBER: 60/502,050
: PRIOR FILING DATE: 2003-09-10
: PRIOR APPLICATION NUMBER: 60/426,137
: PRIOR FILING DATE: 2002-11-14
: NUMBER OF SEQ ID NOS: 1591911
: SOFTWARE: Proprietary
: SEQ ID NO 552292
: LENGTH: 19
: TYPE: RNA
: ORGANISM: Homo sapiens
US-11-101-244-552292

```

Oy	1458	GAAGAAAGCGCCGAGA	1474
Db	2	GAAGAAAGCAGCCGAGA	18

```

RESULT 1476
US-11-101-244-574443
? Sequence 574443, Application US/11101244
? Publication No. US20050246794A1
? GENERAL INFORMATION:
? APPLICANT: Dharmacon, Inc.
? APPLICANT: Khavrova, Anastasia
? APPLICANT: Reynolds, Angela
? APPLICANT: Leake, Devin
? APPLICANT: Marshall, William
? APPLICANT: Scaringe, Stephen
? TITLE OF INVENTION: Functional and Hyperfunctional siRNA
? FILE REFERENCE: 13499US
? CURRENT APPLICATION NUMBER: US/11/101,244
? CURRENT FILING DATE: 2005-04-07
? PRIOR APPLICATION NUMBER: 60/502,050
? PRIOR FILING DATE: 2003-09-10
? PRIOR APPLICATION NUMBER: 60/426,137
? PRIOR FILING DATE: 2002-11-14
? NUMBER OF SEQ ID NOS: 1591911
? SOFTWARE: Proprietary
? SEQ ID NO 574443
? LENGTH: 19
? TYPE: RNA
? ORGANISM: Homo sapiens
US-11-101-244-574443

```

QY 1178 AGGAGGAGCTGGGAUG 1194

Db 3 AGGAGGAGCTGCGAUG 19

```

RESULT 1477
US-11-101-244-581822/c
Sequence 581822, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khavrova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIORITY APPLICATION NUMBER: 60/502,050
PRIORITY FILING DATE: 2003-09-10
PRIORITY APPLICATION NUMBER: 60/426,137
PRIORITY FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 581822
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-581822

```

OY	663	CUCUUAUCAGUCCUGA	679
	:: :: :: :: :	::	
Dδ	19	CTTCATTCAGTTTCTCA	3

```

RESULT 1478
US-11-101-244-581875/c
; Sequence 581875, Application US/11101244
; Publication NO. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIORITY FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIORITY FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 581875
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-101-244-581875

```

QY 663 CUUCAUUCAGUUCUUA 679
|::||::|||::|::|||

RESULT 1483

US-11-101-244-621759
; Sequence 621759, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 621759
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-621759

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 973 GAGCAGUAGACCAAGA 989

Db 3 GAGCAGUAGACCAAGA 19

RESULT 1484

US-11-101-244-653624/c
; Sequence 653624, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 653624
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-653624

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1647 AACAUUCAGAACCAU 1663

Db 19 AACATTCAGACCACTT 3

RESULT 1485

US-11-101-244-653627/c
; Sequence 653627, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 653627
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-653627

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 8.7e+02;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1647 AACAUUCAGAACCAU 1663

Db 18 AACATTCAGACCACTT 2

RESULT 1486

US-11-101-244-702236/c
; Sequence 702236, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 702236
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-702236

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 764 AUAAGGAACUGAAAG 780

Db 1 AUAAGGAACUGAAAG 17

RESULT 1487

```
US-11-101-244-812530
; Sequence 812530, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 812530
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-812530

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1383 CACUCUGGCCAGAGGU 1399
Db      2 CACACUGGCCAGAGGU 18

RESULT 1488
US-11-101-244-826194
; Sequence 826194, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 826194
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-826194

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1177 GAGGAGGAGCGGAGU 1193
Db      2 GAGGAGGAGCGGAGU 18

RESULT 1489
US-11-101-244-913509/c

; Sequence 913509, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 913509
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-913509

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Qy      355 GUCAUUUGCAUGAUCU 371
Db      18 GTCATTTCATCATCT 2

RESULT 1490
US-11-101-244-929681/c
; Sequence 929681, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 929681
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-929681

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1458 GAAGAAAGCGCCAG 1474
Db      19 GAAGAAAGCGCCAGA 3

RESULT 1491
US-11-101-244-946340/c
; Sequence 946340, Application US/11101244
```



```

? Publication No. US20050246794A1
? GENERAL INFORMATION:
? APPLICANT: Dharmacon, Inc.
? APPLICANT: Khvorova, Anastasia
? APPLICANT: Reynolds, Angela
? APPLICANT: Leake, Devin
? APPLICANT: Marshall, William
? APPLICANT: Scaringe, Stephen
? TITLE OF INVENTION: Functional and Hyperfunctional siRNA
? FILE REFERENCE: 13499US
? CURRENT APPLICATION NUMBER: US/11/101,244
? CURRENT FILING DATE: 2005-04-07
? PRIOR APPLICATION NUMBER: 60/502,050
? PRIOR FILING DATE: 2003-09-10
? PRIOR APPLICATION NUMBER: 60/426,137
? PRIOR FILING DATE: 2002-11-14
? NUMBER OF SEQ ID NOS: 1591911
? SOFTWARE: Proprietary
? SEQ ID NO 946340
? LENGTH: 19
? TYPE: RNA
? ORGANISM: Homo sapiens
US-11-101-244-946340

```

	Query Match	Score	DB 1	Length
	Best Local Similarity	76.5%	Pred. No. 8.7e+02	19
Matches	13	Conservative	3	Mismatches 1, Indels 0, Gaps 0.
Qy	883	CUUCACACGCAAGCAU	899	
	: : : : : : : : :			
Db	17	CTTCAACGACCAAGTAT	1	

```

RESULT 1492
US-11-101-244-963463
Sequence 963463, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 1349US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 963463
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-963463

```

	Query Match	0.9%	Score 15.4	DB 1	Length 19
Best Local Similarity	94.1%		Pred. No. 8.7e+02		
Matches 16	Conservative	0	Mismatches 1	Indels 0	Gaps 0
QY	952	AAGAGCTGGAACCCAG	968		
db	2	AAGAGCTGGAACCCAG	18		

RESULT 1493
US-11-101-244-968672/c
; Sequence 968672, Application US/11101244
; Publication No. US20050246794A1

```

GENERAL INFORMATION:
APPLICANT: Pharmacon, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 968672
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-968672

```

Query Match	0.3%	Score 15.4	DB 1	Length 19
Best Local Similarity	70.6%	Pred. No. 8	7e+02	
Matches 12	Conservative 4	Mismatches 1	Indels 0	Gaps 0
Qy	1308	CACAGCTAAGACUUCUG	1324	
Db	18	CACAGCTAAGATTTCG	2	

```

RESULT 1494
US-11-101-244-968744/c
; Sequence 968744, Application US/11101244
; Publication NO. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 1349905
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 968744
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-968744

```

Query Match	0.9%	Score 15.4	DB 1	Length 19
Best Local Similarity	70.6%	Pred. No. 8	7+02	
Matches 12	Conservative	4	Mismatches 1	Indels 0
Gaps				0
QY	1308	CACAGCTAAGACCTTCG	1324	
		:: :: :		
Db	18	CACAGCTAAGATTTCG	2	
		:: :: :		

RESULT 1495
US-11-101-244-1062866
; Sequence 1062866, Application US/11101244
; Publication No. US2005024679A1
GENERAL INFORMATION:

```

; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1062866
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1062866

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 143 AUUUCUCCUCCUCCAGC 159
DB 2 AUUUCACUCCUCCAGC 18

RESULT 1496
US-11-101-244-1085933
; Sequence 1085933, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1085933
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1085933

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1262 CAAAAGCTUCCUCCAG 1278
DB 2 CACAAAGCTUCCUCCAG 18

RESULT 1497
US-11-101-244-1092663
; Sequence 1092663, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Inc.
```

```

; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1092663
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1092663

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 992 ACAGCAGCAGUGACAGU 1008
DB 3 ACAGCAGAGUGACAGU 19

RESULT 1498
US-11-101-244-1092769
; Sequence 1092769, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1092769
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1092769

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 992 ACAGCAGCAGUGACAGU 1008
DB 3 ACAGCAGAGUGACAGU 19

RESULT 1499
US-11-101-244-1136074
; Sequence 1136074, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ PRIOR FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1136074
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-1136074
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1519 UACACACUACGUGUUCU 1535
DB      3 UACACACUCCUGGUCU 19
```

```
RESULT 1500
US-11-101-244-1153902
/ Sequence 1153902, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ PRIOR FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1153902
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-1153902
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      993 CAGCAGCAGUGAGAGUU 1009
DB      1 CAGCAGCAGUGCCAGUU 17
```

```
RESULT 1501
US-11-101-244-1232377
/ Sequence 1232377, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
```

```
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ PRIOR FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1232377
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-1232377
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      886 CAACAGCAAGCAUGAA 902
DB      1 CAACAGCUAAGCAUGAA 17
```

```
RESULT 1502
US-11-101-244-1237707
/ Sequence 1237707, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ PRIOR FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1237707
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-1237707
```

```
Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1218 CAAGCUGCAGGCCAG 1234
DB      2 CAAGCUGCAGGCCAG 18
```

```
RESULT 1503
US-11-101-244-1287587
/ Sequence 1287587, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmacon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
```

```

; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1287587
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1287587
```

```

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      407 UAGGGAACUUGGCCUUG 423
      |||||
Db      2 UAGGGAACUUGGCCUUG 18
```

```

RESULT 1504
US-11-101-244-1287626
; Sequence 1287626, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1287626
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1287626
```

```

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      407 UAGGGAACUUGGCCUUG 423
      |||||
Db      1 UAGGGAACUUGGCCUUG 17
```

```

RESULT 1505
US-11-101-244-1297887/c
; Sequence 1297887, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

```

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1297887
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1297887
```

```

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 8.7e+02;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1358 CUCUACCUUGCCUUC 1374
      ||:|:|:|:|:|:|
Db      18 CTTACTCTGTCCTTC 2
```

```

RESULT 1506
US-11-101-244-1298560
; Sequence 1298560, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1298560
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1298560
```

```

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1271 UCUCGACGUCUCCCAUC 1287
      |||||
Db      1 UCACCAAGCUUCCCAUC 17
```

```

RESULT 1507
US-11-101-244-1307050
; Sequence 1307050, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1307050
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-101-244-1307050

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1360 CUACCUUGUCCUCAA 1376
Db      3 CCACCUCUGUCCUCAA 19

RESULT 1508
; US-11-101-244-1307134
; Sequence 1307134, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1307134
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-101-244-1307134

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1360 CUACCUUGUCCUCAA 1376
Db      3 CCACCUCUGUCCUCAA 19

RESULT 1509
; US-11-101-244-1324599
; Sequence 1324599, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1324599
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-101-244-1324599

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      577 UGGGUCACUCCUUCU 593
Db      1 UGGGUCACUCCUUCU 17

RESULT 1510
; US-11-101-244-1333743/c
; Sequence 1333743, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1333743
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-101-244-1333743

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 8.7e+02;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

Qy      666 CAUUCAGUCCUCCAGU 682
Db      18 CATTCACTTCCTTAGTG 2

RESULT 1511
; US-11-101-244-1384793
; Sequence 1384793, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
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; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1384793
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1384793

Query Match
Best Local Similarity 94.1%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1655 GAACCACTUUCAGAG 1671
Db 3 GCACCACTUUCAGAG 19

RESULT 1512
US-11-101-244-1412484/c
; Sequence 1412484, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1412484
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1412484

Query Match
Best Local Similarity 64.7%; Score 15.4; DB 1; Length 19;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 305 UCAACAACUACUCCUC 321
Db 19 TCAACAACUACUCCUC 3

RESULT 1513
US-11-101-244-1412498/c
; Sequence 1412498, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
```

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; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1412498
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1412498

Query Match
Best Local Similarity 64.7%; Score 15.4; DB 1; Length 19;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 305 UCAACAACUACUCCUC 321
Db 18 TCAACAACUACUCCUC 2

RESULT 1514
US-11-101-244-1412508/c
; Sequence 1412508, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1412508
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1412508

Query Match
Best Local Similarity 64.7%; Score 15.4; DB 1; Length 19;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 305 UCAACAACUACUCCUC 321
Db 17 TCAACAACUACUCCUC 1

RESULT 1515
US-11-101-244-1479942/c
; Sequence 1479942, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmcon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
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; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1479942
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1479942

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 8.7e+02;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      41 CAACACUCCGCTCC 57
DB      18 CAACCTTCAGCTCTCC 2

RESULT 1516
US-11-101-244-1563128/C
; Sequence 1563128, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia, Inc.
; APPLICANT: Reynolds, Anastasia
; APPLICANT: Reynolds, Devin
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1563128
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1563128

Query Match          0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 47.1%; Pred. No. 8.7e+02;
Matches 8; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

QY      714 UGCUUUUAUAGCCUG 730
DB      18 TCGTTATATATGCTCG 2

RESULT 1517
US-10-310-914A-190504
; Sequence 190504, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087,0200,CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 190504
; LENGTH: 18

; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-190504

Query Match          0.8%; Score 15; DB 1; Length 18;
Best Local Similarity 73.3%; Pred. No. 8.6e+02;
Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      227 GCAUCCUGGCUUUG 241
DB      17 GCATCTCGGCTTGG 3

RESULT 1520
US-09-969-373-3175
```

```
; Sequence 3175, Application US/09969373
; Patent No. US2002013852A1
; GENERAL INFORMATION:
; APPLICANT: Effertz, Roger J.
; APPLICANT: Hauge, Brian M.
; TITLE OF INVENTION: Soybean SSRs and Methode of Genotyping
; FILE REFERENCE: 38-10(52679)A
; CURRENT APPLICATION NUMBER: US/09/969,373
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 09/760,427
; PRIOR FILING DATE: 2001-01-13
; PRIOR APPLICATION NUMBER: US 09/855,768
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 4593
; SEQ ID NO 3175
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Glycine max
US-09-969-373-3175

Query Match          0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 9e+02;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      250 AUCGCAACUCCUGGUA 267
DB      1 ATCTGCACGCTCTGGTA 18

RESULT 1521
US-10-314-657-77
; Sequence 77, Application US/10314657
; Publication No. US2003017588A1
; GENERAL INFORMATION:
; APPLICANT: SHEN, Ben
; APPLICANT: CHENG, Yi-Qiang
; APPLICANT: TANG, Gong-Li
; TITLE OF INVENTION: Discrete Acyltransferases Associated with Type I Polyketide
; FILE REFERENCE: 054030-0021
; CURRENT APPLICATION NUMBER: US/10/314,657
; PRIOR FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: PCT/US02/08937
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US 60/278,935
; PRIOR FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 214
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 77
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Streptomyces atroolivaceus
US-10-314-657-77

Query Match          0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 9e+02;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      1270 UUCUCCAGCUUCCCAUC 1287
DB      1 TTGCCACAGCTTCCCATC 18

RESULT 1522
US-10-473-193-77
; Sequence 77, Application US/10473193
; Publication No. US20050080247A1
; GENERAL INFORMATION:
; APPLICANT: SHEN, BEN
; APPLICANT: CHEN, YI-QIANG
; APPLICANT: TANG, GONG-LI
```

```
; TITLE OF INVENTION: LEINAMYCIN BIOSYNTHESIS GENE CLUSTER AND ITS COMPONENTS AND THEIR
; FILE REFERENCE: 309T-000110US
; CURRENT APPLICATION NUMBER: US/10/473,193
; PRIOR FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: US 60/278,935
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: PCT/US02/08937
; PRIOR FILING DATE: 2002-03-22
; NUMBER OF SEQ ID NOS: 222
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 77
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide PCR primer.
US-10-473-193-77

Query Match          0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 9e+02;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      1270 UUCUCCAGCUUCCCAUC 1287
DB      1 TTGCCACAGCTTCCCATC 18

RESULT 1523
US-10-310-914A-52517
; Sequence 52517, Application US/10310914A
; Publication No. US2006000332A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; PRIOR FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 52517
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-52517

Query Match          0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      614 UGUUCUGCAUACUUG 631
DB      1 UGUUUUGGACUACUUG 18

RESULT 1524
US-10-310-914A-57984
; Sequence 57984, Application US/10310914A
; Publication No. US2006000332A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; PRIOR FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 57984
; LENGTH: 18
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TYPE: RNA
ORGANISM: Human
US-10-310-914A-57984

Query Match
Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1178 AGGAGGACGCGGCGGCGG 1195
DB 1 AGGAGGACGCGGCGGCGG 18

RESULT 1525
US-10-310-914A-95470/c
Sequence 95470, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 95470
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-95470

Query Match
Best Local Similarity 55.6%; Score 14.8; DB 1; Length 18;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 557 GUGUGAUGAUCGUCGUCG 574
DB 18 GUGUGAUGAUCGUCGUCG 1

RESULT 1526
US-10-310-914A-140330
Sequence 140330, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 140330
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-140330

Query Match
Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 827 AGACAGAAACUUGUCC 844
DB 1 AAACAGAAACUUGUCC 18

RESULT 1527
US-10-310-914A-157725/c

Sequence 157725, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:

APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 157725
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-157725

Query Match
Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 816 GAGAGGACGAGACGACA 833
DB 18 GAGAGGACGAGACGACA 1

RESULT 1528
US-10-310-914A-188750/c
Sequence 188750, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 188750
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-188750

Query Match
Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 814 GGGACAGGACGAGACA 831
DB 18 GGGACAGGACGAGACA 1

RESULT 1529
US-10-310-914A-253464/c
Sequence 253464, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 253464
LENGTH: 18
TYPE: RNA

```
; ORGANISM: Human
US-10-310-914A-253464

Query Match
Best Local Similarity 72.2%; Pred. No. 9e+02;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1064 AGGACATTCGCTGGAGAGA 1081
DB 18 AGGACATTCGCTGGAGAGA 1

RESULT 1530
US-10-310-914A-257089
; Sequence 257089, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 257089
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-257089

Query Match
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1022 AUGCUCGUCUCCUCCUGG 1039
DB 1 AGGCGUCGUCUCCUCCUGG 18

RESULT 1531
US-10-310-914A-257374/C
; Sequence 257374, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 257374
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-257374

Query Match
Best Local Similarity 72.2%; Pred. No. 9e+02;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1634 CUCUGGCAACAAACAU 1651
DB 18 CTCGAGCAACAAAGCAT 1

RESULT 1532
US-10-310-914A-273398/C
; Sequence 273398, Application US/10310914A

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 273398
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-273398

Query Match
Best Local Similarity 72.2%; Pred. No. 9e+02;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 800 GCCUGCAAGCUCUGGGA 817
DB 18 GCCTGCAAGCTCTGGGA 1

RESULT 1533
US-10-310-914A-365721
; Sequence 365721, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 365721
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-365721

Query Match
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1429 AACCGAAGAGAGUCC 1446
DB 1 AACGAGAGAGAGUCC 18

RESULT 1534
US-10-310-914A-365722
; Sequence 365722, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 365722
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
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US-10-310-914A-365722

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1429 AACGGAGAAAGAGUUGCC 1446

Db 1 AACGAGAGAGAGAGUUGCC 18

RESULT 1535

US-10-310-914A-408506/C
; Sequence 408506, Application US/10310914A
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kiyazat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 408506

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-408506

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 9e+02;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1381 GCCACUUCGCCCAAGAGG 1398

Db 18 GCCACTCTCCCAAGAGG 1

RESULT 1536

US-10-310-914A-491924/C
; Sequence 491924, Application US/10310914A
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kiyazat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 491924

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-491924

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 9e+02;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 110 UCGGACGCUACAUGUU 127

Db 18 TCGGACGCTCAATGTTT 1

RESULT 1537

US-10-310-914A-510774
; Sequence 510774, Application US/10310914A
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kiyazat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 510774

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-510774

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1513 ACCGCAUACAACAUCAUG 1530

Db 1 ACUCGACUACCAUCAUG 18

RESULT 1538

US-10-310-914A-527146
; Sequence 527146, Application US/10310914A
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kiyazat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 527146

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-527146

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 79 GCAGGCGUGCCCCCGGA 96

Db 1 GCAGGCGUGCCCCCGGA 18

RESULT 1539

US-10-310-914A-536426/C
; Sequence 536426, Application US/10310914A
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kiyazat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 536426

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-536426

```
Query Match      0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 9e+02;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1123 AGCACCAGCCTGCTCTCC 1140
      |||||:|:|:|:|:|:|:|:|:|
DB      18 AGCACCATCTCTCTCTCC 1

RESULT 1540
US-10-310-914A-605966/c
; Sequence 605966, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Bentwich, Kivazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 605966
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-605966

Query Match      0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 9e+02;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1179 GGAGAGCCTGGGAGUGU 1196
      |||||:|:|:|:|:|:|:|
DB      18 GGTGAGCTGGGGAGGT 1

RESULT 1541
US-10-310-914A-749972
; Sequence 749972, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Bentwich, Kivazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 749972
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-749972

Query Match      0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      285 CAACAAGCAGCTGAGAGC 302
      |||||:|:|:|:|:|:|:|
DB      1 CAACAAGCAGCTGAGAGC 18

RESULT 1542
US-10-310-914A-802583/c
; Sequence 802583, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Bentwich, Kivazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 802583
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-802583

Query Match      0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 9e+02;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      1676 UGCTUGCCAGGUGUACA 1693
      :|:|:|:|:|:|:|:|:|
DB      18 TTCTGTGACAGTGTGACA 1

RESULT 1543
US-10-310-914A-814923/c
; Sequence 814923, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Bentwich, Kivazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 814923
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-814923

Query Match      0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 9e+02;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1164 CCUGAGGUGCCUGAGCA 1181
      ||:|:|:|:|:|:|:|
DB      18 CCTGAGGTTCTGTGCA 1

RESULT 1544
US-10-310-914A-874488
; Sequence 874488, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Bentwich, Kivazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 874488
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-874488
```

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 763 UUAAGGAACUCGAAAG 780
DB 1 UACAGGAAACUCGAAAG 18

RESULT 1545

US-10-310-914A-922451/C
; Sequence 922451, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 922451
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-922451

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 9e+02;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 918 GAAAGUAGCCGCGGCCA 935
DB 18 GGAGCATGGCCGCTGCCA 1

RESULT 1546

US-10-310-914A-980703/C
; Sequence 980703, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 980703
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-980703

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 9e+02;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 38 UUGCAAGACGAGCUCU 55
DB 18 TTCATATCAGCAGCTCT 1

RESULT 1547

US-10-310-914A-992224
; Sequence 992224, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac

; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 992224
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-992224

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1708 AAGCAGCAGUACGACG 1725
DB 1 AAGCAGCAGUACGACG 18

RESULT 1548

US-10-310-914A-1016293/C
; Sequence 1016293, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1016293
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1016293

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 9e+02;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1182 GGAGCTGGGAGUGCGCA 1199
DB 18 GGAGGTGTGATGTGTGA 1

RESULT 1549

US-10-310-914A-1018095
; Sequence 1018095, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1018095
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1018095

Query Match 0.8%; Score 14.8; DB 1; Length 18;

Best Local Similarity 88.9%; Pred. No. 9e+02; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1181 AGGAGCUGGGGAGUGGUGG 1198
|||
Db 1 AGCAGCUGGGGAGUGGGGG 18

RESULT 1550

US-10-310-914A-1040396/c
; Sequence 1040396, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1040396
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1040396

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 816 GACAGAGCAGAGACAGA 833
|||
Db 18 GAGAGAGACAGACAGACA 1

RESULT 1551

US-10-310-914A-1057429/c
; Sequence 1057429, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1057429
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1057429

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 9e+02;

Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 50 GCUCCUCUGAUAACACA 67
|||
Db 18 GCTCCTCTGGAAACCA 1

RESULT 1552

US-10-310-914A-1064707
; Sequence 1064707, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuza

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1064707

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human
US-10-310-914A-1064707

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 572 UGGCUGGUGCAUCCU 589
|||
Db 1 UGGCUGGUGCAUCCU 18

RESULT 1553

US-10-310-914A-1069811
; Sequence 1069811, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1069811
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1069811

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1429 AAGCGGAAAGAGUGCC 1446
|||
Db 1 AAGCAGAGAGAGUGCC 18

RESULT 1554

US-10-310-914A-1069812
; Sequence 1069812, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1069812
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1069812

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9e+02;

	Matches	16; Conservative	0; Mismatches	2; Indels	0; Gaps
QY	1429	AAGCGAAAAGGAUCC	1446		
Db	1	AAGCAGAAAGAGAUCC	18		

RESULT 1555
US-10-310-914A-1189474
; Sequence 1189474, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

```

:
: TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
:
: TITLE OF INVENTION: Uses thereof
:
: FILE REFERENCE: 06087.0200.CPUS01
:
: CURRENT APPLICATION NUMBER: US/10/310,914A
:
: CURRENT FILING DATE: 2002-12-06
:
: NUMBER OF SEQ ID NOS: 1388402
:
: SOFTWARE: PatentIn version 3.3
:
: SEQ ID NO 1189474
:
: LENGTH: 18
:
: TYPE: RNA
:
: ORGANISM: Human
:
: US-10-310-914A-1189474

```

Query Match	0.84	Score 14.8	DB 1	Length 18
Best Local Similarity	88.94	Pred. No. 9e+02		
Matches 16	Conservative	0	Mismatches 2	Indels 0
Gaps				
QY	313	UACUUCUCUUAAGCCUG	330	
Db	1	UGUUCUCUCUGAAGCCUG	18	

```

RESULT 1556
US-10-914A-1244540/C
; Sequence 1244540, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CFUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 138402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1244540
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-1244540

```

Query Match	0.8%	Score 14.8	DB 1	Length 18
Best Local Similarity	61.1%	Pred. No. 9e+02		
Matches 11, Conservative	5	Mismatches	2	Indels 0
		Gaps	0	
CY	346	AUUAUCCGGGUCADUUCU	363	
		:: :: ::		
Db	18	ATTACCGGGGCCATTTC	1	

```

RESULT 1557
US-10-310-914A-1245541
; Sequence 1245541, Application US/10310914A
; Publication NO. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kyazac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

```

```

; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1245541
;
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1245541

```

Query Match	0.8%;	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	88.9%;	Pred. No. 9e+02;		
Matches 16; Conservative	0;	Mismatches	2;	Indels 0; Gaps 0;
Qy	784	ACCAAGAGCUGCUGGC	801	
Db	1	ACCCCAAGAGCUGCUGGC	18	

```

RESULT 1558
US-10-310-914A-1294909
; Sequence 1294909, Application US/10310914A
; Publication NO. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: Uses thereof
; FILE REFERENCE: 06087,0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1294909
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1294909

```

Query Match	0.8;	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	88.9%;	Pred. No. 9e+02;		
Matches 16;	Conservative	0;	Mismatches 2;	Indels 0;
			Gaps	0;
Oy	1178	AGGAGAGCTGGGGGCAUG	1195	
db	1	AGGAGAGCTGGGGGCAUG	18	

```

RESULT 1559
US-10-310-914A-1330042/c
: Sequence 1330042, Application US/10310914A
: Publication No. US2006003322A1
: GENERAL INFORMATION:
: APPLICANT: Bentwich, Isaac
: APPLICANT: Shiller, Kuzat
: TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
: TITLE OF INVENTION: use thereof
: FILE REFERENCE: 06087.0200.CPUS01
: CURRENT APPLICATION NUMBER: US/10/310.914A
: CURRENT FILING DATE: 2002-12-06
: NUMBER OF SEQ ID NOS: 1388402
: SOFTWARE: PatentIn version 3.3
: SEQ ID NO: 1330042
: LENGTH: 18
: TYPE: RNA
: ORGANISM: Human
US-10-310-914A-1330042

```

Query Match	0.8;	Score	14.8;	DB	1;	length	18;
Best Local Similarity	72.28;	Pred. No.	9e+02;				
Matches	13;	Conservative	3;	Mismatches	2;	Indels	0;
						Gaps	0;

```

QY      1041  AAACUCCGCCUCCUCCGA  1058
      |||:|:|:|:|:|:|
DB      18   GAATCTCTCTCTCTCCA  1

RESULT 1560
US-10-310-914A-1330275
; Sequence 1330275, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1330275
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1330275

Query Match      0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred.No.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      899  UGAACGCGCCACAGCA  916
      |||||G|||G|||G|||
DB      1   UGAACGAUCCACAGCA  18

RESULT 1561
US-10-310-914A-1350954/c
; Sequence 1350954, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyaz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1350954
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1350954

Query Match      0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred.No.9e+02;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1170  GGUGCCUGAGAGAGAGCU  1187
      ||:|:|:|:|:|:|:|
DB      18   CGTGGCTGAGCAGAGACT  1

RESULT 1562
US-09-877-478-1752/c
; Sequence 1752, Application US/09877478
; Publication No. US20030068301A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Diaper, Kenneth
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim

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APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MEHB00-845-H (400/029)
CURRENT APPLICATION NUMBER: US 09/877,478
CURRENT FILING DATE: 2001-12-31
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/696,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 08/433,993
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 08/434,504
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6586
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1752
LENGTH: 17
TYPE: RNA
ORGANISM: Hepatitis B virus
US-09-877-478-1752

Query Match      0.8%; Score 14.4; DB 1; Length 17;
Best Local Similarity 68.8%; Pred. No. 8.8e+02;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy      1527 CAUGGUCUGUGAAC 1542
Db      16 CAGGTGCTGTGAC 1

RESULT 1563
US-09-877-478-1806
Sequence 1806, Application US/09877478
Publication No. US20030068301A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MEHB00-845-H (400/029)
CURRENT APPLICATION NUMBER: US 09/877,478
CURRENT FILING DATE: 2001-12-31
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/696,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 08/433,993
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 08/434,504
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6586
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1806
LENGTH: 17
TYPE: RNA

```



```
/ ORGANISM: Hepatitis B virus
US-09-877-478-1806

Query Match
Best Local Similarity 93.8%; Score 14.4; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1501 AUCAUCACUUGGACCC 1516
DB 2 AUCAUCACUUGGACCC 17

RESULT 1564
US-10-342-902-1752/c
Sequence 1752, Application US/10342902
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwigen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: 400/075 (MEHB00-845-1)
CURRENT FILING DATE: 2003-01-15
PRIOR APPLICATION NUMBER: US 09/877,478
PRIOR FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/696,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6592
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1752
LENGTH: 17
TYPE: RNA
ORGANISM: Hepatitis B virus
US-10-342-902-1752

Query Match
Best Local Similarity 68.8%; Score 14.4; DB 1; Length 17;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1527 CAUGGUCUUGGAC 1542
DB 16 CATGGCTGTGTGAAC 1

RESULT 1565
US-10-342-902-1806
Sequence 1806, Application US/10342902
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwigen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: 400/075 (MEHB00-845-1)
CURRENT FILING DATE: 2003-01-15
PRIOR APPLICATION NUMBER: US 09/877,478
PRIOR FILING DATE: 2001-06-08
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/ PRIOR APPLICATION NUMBER: US 09/531,025
/ PRIOR FILING DATE: 2000-03-20
/ PRIOR APPLICATION NUMBER: US 09/636,385
/ PRIOR FILING DATE: 2000-08-09
/ PRIOR APPLICATION NUMBER: US 09/696,347
/ PRIOR FILING DATE: 2000-10-24
/ PRIOR APPLICATION NUMBER: US 08/193,627
/ PRIOR FILING DATE: 1994-02-07
/ PRIOR APPLICATION NUMBER: US 07/882,712
/ PRIOR FILING DATE: 1992-05-14
/ PRIOR APPLICATION NUMBER: US 09/436,430
/ PRIOR FILING DATE: 1999-11-08
/ NUMBER OF SEQ ID NOS: 6592
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 1806
/ LENGTH: 17
/ TYPE: RNA
/ ORGANISM: Hepatitis B virus
US-10-342-902-1806

Query Match
Best Local Similarity 93.8%; Score 14.4; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1501 AUCAUCACUUGGACCC 1516
DB 2 AUCAUCACUUGGACCC 17

RESULT 1566
US-10-669-841-1752/c
Sequence 1752, Application US/10669841
GENERAL INFORMATION:
APPLICANT: Sirta Therapeutics, Inc.
APPLICANT: Lawrence, Blatt
APPLICANT: Dennis, Macejak
APPLICANT: James, McSwigen
APPLICANT: David, Morrissey
APPLICANT: Pamela, Pavco
APPLICANT: Patricia, Lee
APPLICANT: Kenneth, Draper
APPLICANT: Elisabeth, Roberts
TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED INHIBITION OF HEPATITIS B VIRUS AND HEPATITIS B VIRUS REPLICATION
FILE REFERENCE: 400/042US (MEHB02-249-E)
CURRENT APPLICATION NUMBER: US/10/669,841
CURRENT FILING DATE: 2003-09-23
PRIOR APPLICATION NUMBER: PCT/US02/09187
PRIOR FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: US 60/296,876
PRIOR FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: US 60/335,059
PRIOR FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: US 60/337,055
PRIOR FILING DATE: 2001-12-05
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 60/363,124
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 09/817,879
PRIOR FILING DATE: 2001-03-26
PRIOR APPLICATION NUMBER: US 09/740,332
PRIOR FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: US 09/611,931
PRIOR FILING DATE: 2000-07-07
PRIOR APPLICATION NUMBER: US 09/504,321
PRIOR FILING DATE: 2000-02-15
Remainder Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 16207
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1752
LENGTH: 17
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; TYPE: RNA
; ORGANISM: Hepatitis B Virus
US-10-669-841-1752

Query Match
Best Local Similarity 0.8%; Score 14.4; DB 1; Length 17;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1527 CAUGGUCUGUGAAC 1542
Db 16 CATGCTGCTGCTGAAC 1

RESULT 1567
US-10-669-841-1806
; Sequence 1806, Application US/10669841
; Publication No. US20040127446A1
; GENERAL INFORMATION:
; APPLICANT: Salma Therapeutics, Inc.
; APPLICANT: Lawrence, Blact
; APPLICANT: Dennis, Macejak
; APPLICANT: James, MCSwigen
; APPLICANT: David, Morrissey
; APPLICANT: Pamela, Pavco
; APPLICANT: Patrice, Lee
; APPLICANT: Kenneth, Draper
; APPLICANT: Elisabeth, Roberts
; TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED INHIBITION OF HEPATITIS B VIRUS AND HEP
; FILE REFERENCE: 400/042US (MEH802-249-E)
; CURRENT APPLICATION NUMBER: US/10/669,841
; PRIOR FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: PCT/US02/09187
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US 60/296,876
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/335,059
; PRIOR FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: US 60/337,055
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US 09/817,879
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: US 09/740,332
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: US 09/611,931
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 09/504,321
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: US 09/504,321
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 16207
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1806
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Hepatitis B Virus
US-10-669-841-1806

Query Match
Best Local Similarity 0.8%; Score 14.4; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1501 AUCAUCAUCUGAGCC 1516
Db 2 AUCAUCAUCUGAGCC 17

RESULT 1568
US-10-310-914A-35633/C
; Sequence 35633, Application US/10310914A

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 35633
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-35633

Query Match
Best Local Similarity 0.8%; Score 14.4; DB 1; Length 17;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 786 CAAAGAGCTUGCGC 801
Db 17 CAAAGAGCTTCTCGC 2

RESULT 1569
US-10-109-349A-43
; Sequence 43, Application US/10109349A
; Publication No. US20030186246A1
; GENERAL INFORMATION:
; APPLICANT: Medical College of Ohio
; APPLICANT: Willey, James C.
; APPLICANT: Crawford, Erin L.
; TITLE OF INVENTION: MULTIPLEX STANDARDIZED REVERSE TRANSCRIPTASE-POLYMERASE CHAIN REA
; FILE REFERENCE: 01154/2001-203
; CURRENT APPLICATION NUMBER: US/10/109,349A
; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 282
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-109-349A-43

Query Match
Best Local Similarity 0.8%; Score 14.4; DB 1; Length 18;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1221 GCTGAGGCCCTGAAG 1236
Db 1 GCTGAGGCCCTGAAG 16

RESULT 1570
US-10-310-914A-87407/C
; Sequence 87407, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87407
; LENGTH: 18
; TYPE: RNA
```

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; ORGANISM: Human
US-10-310-914A-87407

Query Match
Best Local Similarity 93.8%; Score 14.4; DB 1; Length 18;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 817 ACAGAGCAGACAGACAG 832
   |||||
Db 16 ACAGAGCAGACAGACAG 1

RESULT 1571
US-10-310-914A-96132
; Sequence 96132, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 96132
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-96132

Query Match
Best Local Similarity 93.8%; Score 14.4; DB 1; Length 18;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1413 CAGAAGUCAGAUCACT 1428
   |||||
Db 2 CAGAAGUCAGAUCACT 17

RESULT 1572
US-10-310-914A-157781/C
; Sequence 157781, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 157781
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-157781

Query Match
Best Local Similarity 93.8%; Score 14.4; DB 1; Length 18;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 820 GAGGACAGACAGAAA 835
   |||||
Db 18 GAGGACAGACAGAAA 3

RESULT 1573
US-10-310-914A-178689
; Sequence 178689, Application US/10310914A

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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 178689
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-178689

Query Match
Best Local Similarity 93.8%; Score 14.4; DB 1; Length 18;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1183 GAGCTUGGAGUGUGG 1198
   |||||
Db 2 GAGCTUGGAGUGUGG 17

RESULT 1574
US-10-310-914A-184112/C
; Sequence 184112, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 184112
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-184112

Query Match
Best Local Similarity 75.0%; Score 14.4; DB 1; Length 18;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1017 CAUGAUGGUGGUGCC 1032
   |||||
Db 17 CAUGAUGGUGGUGCC 2

RESULT 1575
US-10-310-914A-193360/C
; Sequence 193360, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kiyat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 193360
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-193360

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US-10-310-914A-193360

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 9.7e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 885 UCAACAGCAAGCAUG 900
DB 17 TCACAGCAAGCTTG 2

RESULT 1576

US-10-310-914A-298526
Sequence 298526, Application US/10310914A
Publication No. US20060003322A1

GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 298526
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-298526

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1177 GAGGAGAGCTUGGGGA 1192
DB 2 GAGGCGGAGCTUGGGGA 17

RESULT 1577

US-10-310-914A-412825
Sequence 412825, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 412825
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-412825

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1469 CCCAGAGCCGACGUC 1484
DB 3 CCCAGGCCGACGUC 18

RESULT 1578
US-10-310-914A-438320/c
Sequence 438320, Application US/10310914A
Publication No. US20060003322A1

GENERAL INFORMATION:

APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 438320
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-438320

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 816 GACAGAGCAGAGACA 831
DB 16 GACAGAGCAGAGACA 1

RESULT 1579

US-10-310-914A-481091
Sequence 481091, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 481091
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-481091

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGCCGUA 1480
DB 1 GCGGCCGAGCCGUA 16

RESULT 1580

US-10-310-914A-504610
Sequence 504610, Application US/10310914A
Publication No. US20060003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyazat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 504610
LENGTH: 18
TYPE: RNA
ORGANISM: Human
US-10-310-914A-504610

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1183 GAGCUGGGGAGUGUGG 1198
|||||
Db 1 GAGCUGGGGAGUGUGG 16

RESULT 1581

US-10-310-914A-517275
; Sequence 517275, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 517275
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-517275

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1034 CCCUGGAGAACUCCGC 1049
|||||
Db 2 CCCGGAGAACUCCGC 17

RESULT 1582

US-10-310-914A-518000
; Sequence 518000, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 518000
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-518000

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1466 CCGCCGAGACCCUCAG 1481
|||||
Db 2 CUGCCGAGACCCUCAG 17

RESULT 1583

US-10-310-914A-537429/C
; Sequence 537429, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 537429
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-537429

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 68.8%; Pred. No. 9.7e+02;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1188 GGGAGUGGAGACUUG 1203
|||||
Db 16 GGGAGUGGAGACUUG 1

RESULT 1584

US-10-310-914A-600496
; Sequence 600496, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 600496
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-600496

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1307 ACACAGCUGAAGACUUC 1322
|||||
Db 3 AGACAGCUGAAGACUUC 18

RESULT 1585

US-10-310-914A-689772
; Sequence 689772, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 689772
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-689772

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Query Match      0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      818 CAGAGGACAGACAGA 833
      |||||
Db      3 CAGAGGACAGACAGA 18

RESULT 1586
US-10-310-914A-703052/C
; Sequence 703052, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 703052
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-703052

Query Match      0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 68.8%; Pred. No. 9.7e+02;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1674 GCUCGUCGACGACGUGU 1689
      |||||
Db      18 GCTGCTGCCGCACTGT 3

RESULT 1587
US-10-310-914A-724939
; Sequence 724939, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 724939
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-724939

Query Match      0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      813 UGGGACAGGACGACAG 828
      |||||
Db      1 UGGGACAGGACGACAG 16

RESULT 1588
US-10-310-914A-743634/C
; Sequence 743634, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac

; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743634
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743634

Query Match      0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 9.7e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1196 UGACUCUGAGAGGAA 1211
      :|||:
Db      18 TGGACCTGGAGAGGAA 3

RESULT 1589
US-10-310-914A-750829/C
; Sequence 750829, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 750829
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-750829

Query Match      0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 9.7e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1176 UGAGAGAGACUCGCG 1191
      :|||:
Db      17 TGGGAGAGACCTGCGG 2

RESULT 1590
US-10-310-914A-864924/C
; Sequence 864924, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvuazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 864924
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-864924

Query Match      0.8%; Score 14.4; DB 1; Length 18;
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Best Local Similarity 81.2%; Pred. No. 9.7e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 808 GCCUCUGGACAGAGG 823
Db 17 GCCTCTGGGTCAGAGG 2

RESULT 1591
US-10-310-914A-866395/C
; Sequence 866395, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kivzatz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 866395
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-866395

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.7e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1450 GUCAAGAGAGAGAAAG 1465
Db 16 GTCAGAGAGAGAAAG 1

RESULT 1592
US-10-310-914A-923103/C
; Sequence 923103, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kivzatz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 923103
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-923103

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 816 GACAGAGGACAGACCA 831
Db 16 GGCAGAGGACAGACCA 1

RESULT 1593
US-10-310-914A-1115480/C
; Sequence 1115480, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kivzatz

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1115480
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1115480

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.7e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 954 GAGCTGGAAACCGACG 965
Db 18 GAGCTGGAAACCGACG 3

RESULT 1594
US-10-310-914A-1192870/C
; Sequence 1192870, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kivzatz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1192870
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1192870

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.7e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1114 CCGGUCACAGACCA 1129
Db 17 CCGGUCACAGACCA 2

RESULT 1595
US-10-310-914A-1225415
; Sequence 1225415, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kivzatz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1225415
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1225415

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;

```
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1183 GAGCUGGGGAGUGUG 1198
    |||||
DB 1 GAGCUGGGGAGUGUG 16

RESULT 1596
US-10-310-914A-1258988/c
; Sequence 1258988, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuizat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1258988
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1258988

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.7e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1114 CCGGGUCACAGACCA 1129
    |||||
DB 17 CCGGGTCACAGAACCA 2

RESULT 1597
US-10-310-914A-1364456
; Sequence 1364456, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuizat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1364456
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1364456

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1183 GAGCUGGGGAGUGUG 1198
    |||||
DB 1 GAGCUGGGGAGUGUG 16

RESULT 1598
US-10-310-914A-1385854/c
; Sequence 1385854, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuizat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1385854
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1385854

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.7e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1114 CCGGGUCACAGACCA 1129
    |||||
DB 17 CCGGGTCACAGAACCA 2

RESULT 1599
US-11-085-775-60/c
; Sequence 60, Application US/11085775
; Publication No. US20050260634A1
; GENERAL INFORMATION:
; APPLICANT: BALDWIN, DARYL
; APPLICANT: CLARK, HILARY
; APPLICANT: JUEB, ADRIAN
; APPLICANT: KOEPPEN, HARTMUT
; APPLICANT: QUAN, CLIFFORD
; APPLICANT: WU, THOMAS
; APPLICANT: ZHANG, ZEMIN
; TITLE OF INVENTION: ACHAETE-SCUTE LIKE-2 POLYPEPTIDES AND ENCODING NUCLEIC
; FILE REFERENCE: P5028R1P1-US
; CURRENT APPLICATION NUMBER: US/11/085,775
; CURRENT FILING DATE: 2005-03-21
; PRIOR APPLICATION NUMBER: PCT/US03/17682
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: US 10/454,945
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: US 60/407,087
; PRIOR FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 78
; SEQ ID NO 60
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-085-775-60

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 9.7e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1051 UCCUCCGACGAGAGG 1066
    :||:|||||
DB 17 TCCTCCGACGAGTAGG 2

RESULT 1600
US-10-310-914A-605977
; Sequence 605977, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuizat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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SOFTWARE: PatentIn version 3.3
SEQ ID NO 605977
LENGTH: 19
TYPE: RNA
ORGANISM: Human
US-10-310-914A-605977

Query Match 0.8%; Score 14.2; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1125 CACCAUCCUACACUCCACC 1143
DB 1 CACCCUCCUCCAGCACC 19

RESULT 1601
US-09-864-636A-1705/c
Sequence 1705, Application US/09864636A
Publication No. US20030104378A1
GENERAL INFORMATION:
APPLICANT: Third Wave Technologies
APPLICANT: Allawi, Hatim
APPLICANT: Bartholomay, Christian
APPLICANT: Chenak, LuAnne
TITLE OF INVENTION: Detection of RNA Sequences
FILE REFERENCE: FORS-04944
CURRENT APPLICATION NUMBER: US/09/864,636A
CURRENT FILING DATE: 2002-10-15
NUMBER OF SEQ ID NOS: 2640
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1705
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic
US-09-864-636A-1705

Query Match 0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 50.0%; Pred. No. 9.5e+02;
Matches 7; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 26 CCUCGCCUUGUUU 39
DB 15 CCTCGCCTTGT 2

RESULT 1602
US-09-864-426A-1705/c
Sequence 1705, Application US/09864426A
Publication No. US20040018489A1
GENERAL INFORMATION:
APPLICANT: Third Wave Technologies
APPLICANT: Ma, Wu Po
APPLICANT: Lyamichev, Victor
APPLICANT: Saisier, Michael
TITLE OF INVENTION: Enzymes for the Detection of RNA Sequences
FILE REFERENCE: FORS-04946
CURRENT APPLICATION NUMBER: US/09/864,426A
CURRENT FILING DATE: 2001-05-24
NUMBER OF SEQ ID NOS: 2640
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1705
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic
US-09-864-426A-1705

Query Match 0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 50.0%; Pred. No. 9.5e+02;

Matches 7; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
QY 26 CCUCGCCUUGUUU 39
DB 15 CCTCGCCTTGT 2

RESULT 1603
US-10-084-839-1705/c
Sequence 1705, Application US/10084839
Publication No. US20030186238A1
GENERAL INFORMATION:
APPLICANT: Third Wave Technologies
APPLICANT: Allawi, Hatim
APPLICANT: Argue, Brad T.
APPLICANT: Bartholomay, Christian T.
APPLICANT: Chenak, LuAnne
APPLICANT: Curtis, Michelle L.
APPLICANT: Eis, Peggy S.
APPLICANT: Hall, Jeff G.
APPLICANT: Ip, Hon S.
APPLICANT: Kaiser, Michael
APPLICANT: Kwiatkowski, Jr., Robert W.
APPLICANT: Lukowiak, Andrew A.
APPLICANT: Lyamichev, Victor
APPLICANT: Ma, WuPo
APPLICANT: Neri, Bruce P.
APPLICANT: Olson, Sarah M.
APPLICANT: Olson-Munoz, Marilyn C.
APPLICANT: Schaefer, James J.
APPLICANT: Skrzypczynski, Zbigniew
APPLICANT: Takova, Tsetska Y.
APPLICANT: Thompson, Lisa C.
APPLICANT: Vedvik, Kevin L.
TITLE OF INVENTION: RNA Detection Assays
FILE REFERENCE: FORS-06666
CURRENT APPLICATION NUMBER: US/10/084,839
CURRENT FILING DATE: 2002-02-26
NUMBER OF SEQ ID NOS: 4004
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1705
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic
US-10-084-839-1705

Query Match 0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 50.0%; Pred. No. 9.5e+02;
Matches 7; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 26 CCUCGCCUUGUUU 39
DB 15 CCTCGCCTTGT 2

RESULT 1604
US-10-084-839-3966/c
Sequence 3966, Application US/10084839
Publication No. US20030186238A1
GENERAL INFORMATION:
APPLICANT: Third Wave Technologies
APPLICANT: Allawi, Hatim
APPLICANT: Argue, Brad T.
APPLICANT: Bartholomay, Christian T.
APPLICANT: Chenak, LuAnne
APPLICANT: Curtis, Michelle L.
APPLICANT: Eis, Peggy S.
APPLICANT: Hall, Jeff G.
APPLICANT: Ip, Hon S.

```

; APPLICANT: Ji, Lin
; APPLICANT: Kaiser, Michael
; APPLICANT: Kwiatkowski, Jr., Robert W.
; APPLICANT: Lukowiak, Andrew A.
; APPLICANT: Lyamichiev, Victor
; APPLICANT: Lyamichiev, Natalie E.
; APPLICANT: Ma, WuPo
; APPLICANT: Neri, Bruce P.
; APPLICANT: Olson, Sarah M.
; APPLICANT: Olson-Munoz, Marilyn C.
; APPLICANT: Schaefer, James J.
; APPLICANT: Skrzypczynski, Zbigniew
; APPLICANT: Takova, Tsetska Y.
; APPLICANT: Thompson, Lisa C.
; APPLICANT: Vedvik, Kevin L.
; TITLE OF INVENTION: RNA Detection Assays
; FILE REFERENCE: FORS-06666
; CURRENT APPLICATION NUMBER: US/10/084,839
; CURRENT FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 4004
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3966
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-084-839-3966

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Query Match      0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 50.0%; Pred. No. 9.5e+02;
Matches 7; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

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QY      26 CCUGCCUUGUU 39
      ||:|||||:|:|:|
DB      15 CCTGCCCTTGT 2

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RESULT 1605
US-10-084-839-3981/c
; Sequence 3981, Application US/10084839
; Publication No. US20030186238A1
; GENERAL INFORMATION:
; APPLICANT: Third Wave Technologies
; APPLICANT: Allawi, Hatim
; APPLICANT: Argue, Brad T.
; APPLICANT: Bartholomay, Christian T.
; APPLICANT: Chehak, LuAnne
; APPLICANT: Curtis, Michelle L.
; APPLICANT: Eis, Peggy S.
; APPLICANT: Hall, Jeff G.
; APPLICANT: ID, Hon S.
; APPLICANT: Ji, Lin
; APPLICANT: Kaiser, Michael
; APPLICANT: Kwiatkowski, Jr., Robert W.
; APPLICANT: Lukowiak, Andrew A.
; APPLICANT: Lyamichiev, Victor
; APPLICANT: Lyamichiev, Natalie E.
; APPLICANT: Ma, WuPo
; APPLICANT: Neri, Bruce P.
; APPLICANT: Olson, Sarah M.
; APPLICANT: Olson-Munoz, Marilyn C.
; APPLICANT: Schaefer, James J.
; APPLICANT: Skrzypczynski, Zbigniew
; APPLICANT: Takova, Tsetska Y.
; APPLICANT: Thompson, Lisa C.
; APPLICANT: Vedvik, Kevin L.
; TITLE OF INVENTION: RNA Detection Assays
; FILE REFERENCE: FORS-06666
; CURRENT APPLICATION NUMBER: US/10/084,839
; CURRENT FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 4004
; SOFTWARE: Patentin version 3.1

```

```

; SEQ ID NO 3981
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-084-839-3981

```

```

Query Match      0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 50.0%; Pred. No. 9.5e+02;
Matches 7; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      26 CCUGCCUUGUU 39
      ||:|||||:|:|:|
DB      15 CCTGCCCTTGT 2

```

```

RESULT 1606
US-10-374-466-84
; Sequence 84, Application US/10374466
; Publication No. US20040091865A1
; GENERAL INFORMATION:
; APPLICANT: Pangene Corporation
; TITLE OF INVENTION: The Use of Consensus Sequences for Targeted Homologous
; FILE REFERENCE: A-65678-1/RFT/NBC
; CURRENT APPLICATION NUMBER: US/10/374,466
; CURRENT FILING DATE: 2004-02-24
; PRIOR APPLICATION NUMBER: US/09/209,676
; PRIOR FILING DATE: 2002-06-18
; PRIOR APPLICATION NUMBER: US 60/070,734
; PRIOR FILING DATE: 1997-12-11
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 84
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (3)
; OTHER INFORMATION: "n" at position 3 can be any base.
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-374-466-84

```

```

Query Match      0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 35.3%; Pred. No. 9.5e+02;
Matches 6; Conservative 10; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      304 GUCACACUACUUCU 320
      |:|:|:|:|:|:|:|:|
DB      1 GTMAAYAAATAYTYYT 17

```

```

RESULT 1607
US-09-801-274-1145/c
; Sequence 1145, Application US/09801274
; Patent No. US20020032319A1
; GENERAL INFORMATION:
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Lander, Eric S.
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: 2825.2009-001
; CURRENT APPLICATION NUMBER: US/09/801,274
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 60/187,510
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 60/206,129
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 1802
; SOFTWARE: FastSeq for Windows Version 4.0

```

Fri Jun 30 14:07:10 2006

US10798090A-305.rnpbm.s1

Page 511

```
; SEQ ID NO 1145
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-801-274-1145
```

Query Match	0.8%	Score 14;	DB 1;	Length 31;
Best Local Similarity	53.3%;	Pred. No. 1.7e+03;		
Matches 16;	Conservative	4;	Mismatches 10;	Indels 0;
				Gaps 0;

```

OY      995 GCAGCAGUCACAGUUGGACACCAUGAUG 1024
          ||||| : ||| : : |
DB      30 GCAGCATGGCAGTSCCAAAGTGATGTG 1

```

Search completed: June 30, 2006, 14:02:24
Job time : 40 secs

GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 30, 2006, 14:05:15 ; Search time 0.001 Seconds

(without alignments)
244.674 Million cell updates/sec

Title: US-10-798-090A-305

Perfect score: 1773

Sequence: 1 augaccuugcacaauaacag.....cacccagcagcgcuugag 1773

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 4 seqs, 69 residues

Total number of hits satisfying chosen parameters: 8

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 5 summaries

Database : rnpbn.subdb.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	16.8	0.9	20	US-10-511-937-788	Sequence 788, App
2	13.8	0.8	17	US-10-514-776-192	Sequence 192, App
3	13.8	0.8	17	US-10-559-415-171	Sequence 171, App
C 4	12	0.7	15	US-10-567-072-31	Sequence 31, App
5	11.8	0.7	20	US-10-511-937-788	Sequence 788, App

ALIGNMENTS

RESULT 1
US-10-511-937-788/C
; Sequence 788, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
; APPLICANT: EXPRESSION DIAGNOSTICS, INC.
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Prentice, James
; APPLICANT: Morris, Macdonald
; APPLICANT: Rosenberg, Steven
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
; TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
; FILE REFERENCE: 506612000104
; CURRENT APPLICATION NUMBER: US/10/511,937
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US2003/012946
; PRIOR FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: US 10/131,831
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 10/325,899

; PRIOR FILING DATE: 2002-12-20
; NUMBER OF SEQ ID NOS: 3117
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 788
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-511-937-788

Query Match 0.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 75.0%; Pred. No. 0.34;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 148 UCCUCUCACAGCGUACAC 167
DB 20 TCCTCTCCAGAGGACAC 1

RESULT 2
US-10-514-776-192

; Sequence 192, Application US/10514776
; Publication No. US20060094008A1
; GENERAL INFORMATION:
; APPLICANT: Syntex Corporation
; TITLE OF INVENTION: CK primer
; FILE REFERENCE: GP03-1006PCT
; CURRENT APPLICATION NUMBER: US/10/514,776
; CURRENT FILING DATE: 2004-11-19
; PRIOR APPLICATION NUMBER: JP P2002-145689
; PRIOR FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: JP P2002-175271
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: JP P2002-199759
; PRIOR FILING DATE: 2002-07-09
; NUMBER OF SEQ ID NOS: 474
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 192
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial

; FEATURE:
; OTHER INFORMATION: Designed DNA based on CK18
US-10-514-776-192

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 1.4;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 853 GGCAGUCUCGAGCGUG 869
DB 1 GGCTGTTCTCCAAGCTG 17

RESULT 3
US-10-559-415-171
; Sequence 171, Application US/10559415
; Publication No. US20060100132A1
; GENERAL INFORMATION:
; APPLICANT: AstraZeneca AB et al
; TITLE OF INVENTION: Diagnostic Method
; FILE REFERENCE: 101073-1P WO
; CURRENT APPLICATION NUMBER: US/10/559,415
; CURRENT FILING DATE: 2005-12-06
; PRIOR APPLICATION NUMBER: 0313081.2
; PRIOR FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 191
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 171
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-559-415-171

Query Match	0.8;	Score 13.8;	DB 1;	Length 17;
Best Local Similarity	70.6;	Pred. No. 1.4;		
Matches 12; Conservative	3;	Mismatches 2;	Indels 0;	Gaps 0;

```

QY      325 AGCCUGGCCUGUGCCGA 341
          |||: |||: |||||
Db      1 AGCCTGCGCTTTGCCGA 17

```

RESULT 4
US-10-567-072-31/c

GENERAL INFORMATION:

APPLICANT:	Park, Hee-Kyung
APPLICANT:	Cho, Mong
APPLICANT:	1988 Hwan-Tae

APPLICANT: Yang, Hyun-Jung

TITLE OF INVENTION: Microarraying Probes for Drug-Resistant Hepatitis B Virus
 TITLE OF INVENTION: Compilating Probes for Drug-Resistant Hepatitis B Virus
 TITLE OF INVENTION: Detection, Quality Control and Negative Control, and Method for
 TITLE OF INVENTION: Drug-Resistant Hepatitis B Virus Using the Same
 PIR REFERENCE: 50413/0710001

OTHER INFORMATION: 548MV2 probe
US-10-567-072-31

QY	1405	CTGAAGACCAGA	1416
		:	
Db	14	CTGAAGACCAGA	3

RESULT 5
US-10-511-937-788

GENERAL INFORMATION:

APPLICANT: Woblgemuth, Jay

APPLICANT: WOODWARD, ROBERT
BY: N90C

APPLICANT: Prentice, James

APPLICANT: Rosenberg, Steven
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING

```

; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 788
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-511-937-788

```

Query Match	0.7%	Score 11.8;	DB 1;	Length 20;
Best Local Similarity	73.3%	Pred. No. 2.5;		
Matches 11;	Conservative 2;	Mismatches 2;	Indels 0;	Gaps 0;

QY 646 GUGCTUCGGGAGAG 660
|:|:|:|:|:|:|
Db 4 GTGCCCTTCTGGAGAG 18

```
Search completed: June 30, 2006, 14:05:15
Job time : 0.001 secs
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GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 30, 2006, 14:06:58 ; Search time 0.001 Seconds
(without alignments)
117.018 Million cell updates/sec

Title: US-10-798-090A-305

Perfect score: 1773
Sequence: 1 aagaccugcacaauacag.....cacccgagcagccuuguaag 1773

Scoring table: IDENTITY NUC
Gapop 10_0 , Gapext 0.5

Searched: 2 segs, 33 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 3 summaries

Database : ret.subdb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	14.4	0.8	18	1	AM249853
C 2	13.4	0.8	15	1	AM249689
C 3	9	0.5	15	1	AM249689

ALIGNMENTS

RESULT 1
AM249853 18 bp mRNA linear EST 07-JAN-2000
LOCUS 2821520.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2821520 3',
DEFINITION mRNA sequence.
ACCESSION AM249853
VERSION AM249853.1 GI:6592846
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 18)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Other ESTs: 2821520.5prime
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-r@mail.nih.gov
Tissue Procurement: DCTD/DRP cDNA Library Preparation: Ling
Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
Consortium (LNL) DNA Sequencing by: Berkeley MGC sequencing
Project Clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LNL at:

FEATURES
source

www.bio.lnl.gov/bdrp/image/image.html Base Calling / Quality
Scores: PHRED from University of Washington Genome Center. Vector
Trimming: cross match from University of Washington Genome Center
PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
Proscophila Genome Project. University of Washington Genome Center:
http://www.genome.washington.edu Low Quality Sequence: 0 contiguous
PHRED high quality bases following vector sequence. Very Low
Quality Sequence: Trace file contained 18 contiguous distinct peaks
following vector sequence. Polyadenylation: Based upon the presence
of a XhoI site followed by a run of 14 or more T residues at the
beginning of the sequence, this cDNA insert was polyadenylated.
Plate: LCM7 row: A column: 9.
Location/Qualifiers
1. 18
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2821520"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="DH10B (phage-resistant)"
/clone_11b="NIH MGC 7"
/note="Organ: lung; Vector: POTB; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adapter: GGCAAGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life technologies)."

Query Match 0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 0;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1685 AGTGTGCAAAAAA 1700
DB 16 AGTGTGCAAAAAA 1

RESULT 2
AM249689 15 bp mRNA linear EST 07-JAN-2000
LOCUS 2819706.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819706 3',
DEFINITION mRNA sequence.
ACCESSION AM249689
VERSION AM249689.1 GI:6592682
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 15)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Other ESTs: 2819706.5prime
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-r@mail.nih.gov
Tissue Procurement: DCTD/DRP cDNA Library Preparation: Ling
Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
Consortium (LNL) DNA Sequencing by: Berkeley MGC sequencing
Project Clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LNL at:
www.bio.lnl.gov/bdrp/image/image.html Base Calling / Quality
Scores: PHRED from University of Washington Genome Center. Vector
Trimming: cross match from University of Washington Genome Center
PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
Proscophila Genome Project. University of Washington Genome Center:
http://www.genome.washington.edu Low Quality Sequence: 13
contiguous PHRED high quality bases following vector sequence. Very
Low Quality Sequence: Trace file contained 15 contiguous distinct

peaks following vector sequence. Polydenylation: Based upon the presence of a XhoI site followed by a run of 14 or more T residues at the beginning of the sequence, this cDNA insert was polyadenylated.

Plate: L1CM2 row: E column: 19
High quality sequence stop: 13.

FEATURES

source

1.15
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2819706"
/issue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="PH10B (phage-resistant)"
/note="Organ: lung; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

Query Match 0.8%; Score 13.4; DB 1; Length 15;

Best Local Similarity 80.0%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;

Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1686 GUGUGCAAAAAA 1700

Db 15 GTGTGAAAAAAA 1

RESULT 3

AW249689

LOCUS

DEFINITION 2819706.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819706 3',
mRNA sequence.

ACCESSION

AW249689

VERSION

AW249689.1

GI:6592682

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

1 (bases 1 to 15)
NIH-MGC <http://mgs.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Other ESTs: 2819706.5prime
Contact: Robert Strausberg, Ph.D.
Email: cgabs-r@mail.nih.gov
Tissue Procurement: DCTD/DTF cDNA Library Preparation: Ling
Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
Consortium (LNU) DNA Sequencing by: Berkeley MGC sequencing
project Clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LNU at:
www.bio.11nl.gov/btrp/image/image.html Base Calling / Quality
Scores: PHRED from University of Washington Genome Center
Trimming: cross match from University of Washington Genome Center
PHRAP suite. Poly-T Identification: patmatch.pl from Berkeley
Drosophila Genome Project. University of Washington Genome Center:
<http://www.genome.washington.edu> Low Quality Sequence: 13
contiguous PHRED high quality bases following vector sequence. Very
low Quality Sequence: Trace file contained 15 contiguous distinct
peaks following vector sequence. Polydenylation: Based upon the
presence of a XhoI site followed by a run of 14 or more T residues
at the beginning of the sequence, this cDNA insert was
polyadenylated.
Plate: L1CM2 row: E column: 19
High quality sequence stop: 13.

FEATURES

source

Location/Qualifiers
1.15
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2819706"
/issue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="PH10B (phage-resistant)"
/note="Organ: lung; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

Query Match 0.5%; Score 9; DB 1; Length 15;

Best Local Similarity 44.4%; Pred. No. 0; Mismatches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1739 UUUUUCACA 1747

Db 6 TTTTTCACA 14

Search completed: June 30, 2006, 14:06:58
Job time : 0.001 secs


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107 12.2 0.7 17 1 US-10-138-674B-7793 Sequence 7793, Ap
108 12 0.7 15 1 US-08-435-350-108 Sequence 108, App
109 12 0.7 15 1 US-08-266-414-5 Sequence 5, Appl1
110 12 0.7 15 1 US-08-291-932A-31 Sequence 31, Appl1
111 12 0.7 15 1 US-08-291-932A-220 Sequence 220, App
112 12 0.7 15 1 US-08-334-847-497 Sequence 497, App
113 12 0.7 15 1 US-08-334-847-657 Sequence 657, App
114 12 0.7 15 1 US-08-585-684B-1244 Sequence 1244, Ap
115 12 0.7 15 1 US-08-585-684B-1245 Sequence 1245, Ap
116 12 0.7 15 1 US-09-191-099-19 Sequence 19, Appl1
117 12 0.7 15 1 US-09-252-806-4 Sequence 4, Appl1
118 12 0.7 15 1 US-09-038-073-1244 Sequence 1244, Ap
119 12 0.7 15 1 US-09-038-073-1245 Sequence 1245, Ap
120 12 0.7 15 1 US-09-142-779-4 Sequence 4, Appl1
121 12 0.7 15 1 US-08-943-571-13 Sequence 13, Appl1
122 12 0.7 15 1 US-09-711-508-4 Sequence 4, Appl1
123 12 0.7 15 1 US-10-085-871C-10 Sequence 10, Appl1
124 12 0.7 15 1 US-10-085-871C-11 Sequence 11, Appl1
125 12 0.7 15 1 US-09-775-818-13 Sequence 13, Appl1
126 12 0.7 15 1 US-09-648-389A-1 Sequence 1, Appl1
127 12 0.7 15 1 US-09-341-700A-672 Sequence 672, App
128 11.8 0.7 20 1 US-09-723-368-5 Sequence 5, Appl1
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ALIGNMENTS

```
RESULT 1
US-09-826-509-279
; Sequence 279, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Brumsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: Protein-Coupled Receptors
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 279
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-279

Query Match 1.8%; Score 32.2; DB 1; Length 37;
Best Local Similarity 83.8%; Pred. No. 0.19;
Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1449 GGUCAAGAGAGAAAGCGGCCGAGCCUCUAGUGCG 1485
Db 1 GGTCAAGAGAGAAAGCGAAACAGACCTCAGTGCG 37

RESULT 2
US-09-826-509-280/C
; Sequence 280, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Brumsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
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; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 280
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-280

Query Match 1.8%; Score 32.2; DB 1; Length 37;
Best Local Similarity 83.8%; Pred. No. 0.19;
Matches 31; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1449 GGUCAAGAGAGAGCGGCCGAGCCUCUAGUGCG 1485
Db 37 GGTCAAGAGAGAGCGAAACAGACCTCAGTGCG 1

RESULT 3
US-08-513-974B-69
; Sequence 69, Application US/08513974B
; Patent No. 6116139
; GENERAL INFORMATION:
; APPLICANT: Hinuma, Shuji
; APPLICANT: Hosoya, Masaki
; APPLICANT: Fujii, Ryo
; APPLICANT: Ohkaki, Tetsuya
; APPLICANT: Fukusumi, Shoji
; APPLICANT: Ohgi, Kazuhiro
; TITLE OF INVENTION: G PROTEIN COUPLED RECEPTOR PROTEIN,
; NUMBER OF SEQUENCES: 380
; CORRESPONDENCE ADDRESS:
; ADDRESSER: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/513,974B
; FILING DATE: 14-SEP-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/JP95/01599
; FILING DATE: 10-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-093989
; FILING DATE: 19-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-057186
; FILING DATE: 16-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-007177
; FILING DATE: 20-JAN-1995
; APPLICATION NUMBER: JP 6-326611
; FILING DATE: 28-DEC-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 6-270017
; FILING DATE: 02-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 6-236357
; FILING DATE: 30-SEP-1994
```

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-236356
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189274
FILING DATE: 11-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189273
FILING DATE: 11-AUG-1945
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189272
FILING DATE: 11-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S.
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 45753
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-513-974B-69

Query Match 1.5%; Score 27; DB 1; Length 27;
Best Local Similarity 77.8%; Pred. No. 0.7;
Matches 21; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 240 GGUGACCAUCCGACACUCCUGU 266
DB 1 GGTGACCATCATCGGACATCTGCT 27

US-08-513-974B-182
Sequence 182, Application US/08513974B
Patent No. 6114139
GENERAL INFORMATION:
APPLICANT: Hinuma, Shuji
APPLICANT: Hosoya, Masaki
APPLICANT: Fujii, Ryo
APPLICANT: Ohtaki, Tetsuya
APPLICANT: Fukusumi, Shoji
APPLICANT: Ohgi, Kazuhito
TITLE OF INVENTION: G PROTEIN COUPLED RECEPTOR PROTEIN,
TITLE OF INVENTION: PRODUCTION, AND USE THEREOF
NUMBER OF SEQUENCES: 380
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/513,974B
FILING DATE: 14-SEP-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP95/01599
FILING DATE: 10-AUG-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-093989
FILING DATE: 19-AUG-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-057186
FILING DATE: 16-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-007177
FILING DATE: 20-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-326611
FILING DATE: 28-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-270017
FILING DATE: 02-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-236357
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-236356
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189274
FILING DATE: 11-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189273
FILING DATE: 11-AUG-1945
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189272
FILING DATE: 11-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S.
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 45753
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO: 182:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-513-974B-182

Query Match 1.5%; Score 27; DB 1; Length 27;
Best Local Similarity 74.1%; Pred. No. 0.7;
Matches 20; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1618 AACCCGUGUGCUAUGCUCUGUCAAC 1644
DB 1 AACCCGUGUGCUAUGCUCUGUCAAC 27

US-09-826-509-79
Sequence 79, Application US/09826509
Patent No. 6806054
GENERAL INFORMATION:
APPLICANT: Lehmann-Brulinsma, Karin
APPLICANT: Liaw, Chen W.
APPLICANT: Lin, I-Lin
TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
TITLE OF INVENTION: Protein-Coupled Receptors
FILE REFERENCE: AREN-207
CURRENT APPLICATION NUMBER: US/09/826,509
FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 60/195,747
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: 09/170,496
PRIOR FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 589
SOFTWARE: Patent Version 2.1
SEQ ID NO 79
LENGTH: 32

;; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-79

Query Match 1.5%; Score 26; DB 1; Length 32;
Best Local Similarity 80.8%; Pred. No. 1.7;
Matches 21; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1 AUGACCUUCGACAUACAAGUACAAC 26
|:||||:||||:||||:||||:||||:
DB 7 ATGACCTTGACATATACAGTACAC 32

RESULT 6
US-09-396-196G-58455
; Sequence 58455, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 58455
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-09-396-196G-58455

Query Match 1.2%; Score 21.4; DB 1; Length 25;
Best Local Similarity 60.9%; Pred. No. 5.7;
Matches 14; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

QY 1526 UCAUGGUCUGUGACACCUUU 1548
:||||:||||:||||:||||:||||:
DB 3 TCATGCTCTGTGGACACCTTT 25

RESULT 7
US-09-396-196G-99629
; Sequence 99629, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 99629
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-09-396-196G-99629

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 72.0%; Pred. No. 9.3;
Matches 18; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1507 ACUUGACCCCAUACAUCAUUG 1531

DB 1 ACTGGACCATATATACATCATGG 25
||:||||:||||:||||:||||:||||:

RESULT 8
US-09-396-196G-115275
; Sequence 115275, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 115275
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-09-396-196G-115275

Query Match 1.1%; Score 20.2; DB 1; Length 25;
Best Local Similarity 52.0%; Pred. No. 9.3;
Matches 13; Conservative 9; Mismatches 3; Indels 0; Gaps 0;

QY 469 AUGAUCUUCUGUCUACGCUUUG 493
|:||||:||||:||||:||||:||||:
DB 1 ATGAACCTTCTGTGATTAAGCTTTG 25

RESULT 9
US-09-404-912-105/C
; Sequence 105, Application US/09404912
; Patent No. 6703228
; GENERAL INFORMATION:
; APPLICANT: John Landers
; APPLICANT: David Houseman
; APPLICANT: Barbara Jordan
; APPLICANT: Alain Charest
; TITLE OF INVENTION: Methods and Products Related to
; FILE REFERENCE: M0656/7045(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/404,912
; CURRENT FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: US 60/101,757
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22283
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 691
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 105
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-404-912-105

Query Match 1.0%; Score 17; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 12;
Matches 11; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1567 AAAACCUUUGGAUUC 1583
||||:||||:||||:||||:||||:
DB 17 AAAACCTTTTGAATCT 1

RESULT 10
US-09-922-146-21

```
/ Sequence 21, Application US/09922146
/ Patent No. 6566133
/ GENERAL INFORMATION:
/ APPLICANT: Lex M. Cowsett
/ APPLICANT: Brett P. Monia
/ TITLE OF INVENTION: ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 9 EXPRESSION
/ FILE REFERENCE: RTS-0252
/ CURRENT APPLICATION NUMBER: US/09/922,146
/ CURRENT FILING DATE: 2001-08-01
/ NUMBER OF SEQ ID NOS: 48
/ SEQ ID NO 21
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Antisense Oligonucleotide
US-09-922-146-21
```

```
Query Match      0.9%; Score 16.8; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1464 AGGGCCCGAGCCCTCAGG 1483
Db      1 AGGGCCCGAGCCCTCAGG 20
```

RESULT 11

```
US-10-080-794-2/c
/ Sequence 2, Application US/1080794
```

```
/ Patent No. 6900187
/ GENERAL INFORMATION:
/ APPLICANT: Gleave, Martin
/ APPLICANT: Miyake, Hideaki
/ APPLICANT: Nelson, Colleen
/ APPLICANT: Monia, Brett P.
/ TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
/ TITLE OF INVENTION: HAVING 2'-O-(2-METHOXY)ETHYL MODIFICATIONS
/ FILE REFERENCE: UBC-P-020-3
/ CURRENT APPLICATION NUMBER: US/10/080,794
/ CURRENT FILING DATE: 2002-02-22
/ PRIOR APPLICATION NUMBER: 60/121,726
/ PRIOR FILING DATE: 1999-02-26
/ PRIOR APPLICATION NUMBER: 09/913,325
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: 09/944,326
/ PRIOR FILING DATE: 2001-08-30
/ NUMBER OF SEQ ID NOS: 19
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 21
/ TYPE: DNA
/ ORGANISM: Murine
/ FEATURE:
/ OTHER INFORMATION: mismatch control
US-10-080-794-2
```

```
Query Match      0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 60.0%; Pred. No. 23;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1664 UCAGAGUCGUCGUCGUCG 1683
Db      20 TCAGAGTCTGCTGCTGTC 1
```

```
RESULT 12
US-09-723-368-5
/ Sequence 5, Application US/09723368
/ Patent No. 6641818
/ GENERAL INFORMATION:
/ APPLICANT: NORTHWESTERN UNIVERSITY
```

```
/ APPLICANT: SPEAR, Patricia G.
/ APPLICANT: WARNER, Morayn S.
/ APPLICANT: GRAGHTY, Robert G.
/ APPLICANT: MARTINEZ, Wanda M.
/ APPLICANT: MONTGOMERY, Rebecca I.
/ APPLICANT: COHEN, Gary H.
/ APPLICANT: EISENBERG, Roselyn J.
/ APPLICANT: WHITEBECK, Charles J.
/ APPLICANT: KRUMENACHER, Claude
/ APPLICANT: UNIVERSITY OF PENNSYLVANIA
/ TITLE OF INVENTION: CELLULAR PROTEINS WHICH MEDIATE HERPESVIRUS ENTRY
/ FILE REFERENCE: 200290.0050/201
/ CURRENT APPLICATION NUMBER: US/09/723,368
/ CURRENT FILING DATE: 2000-11-28
/ PRIOR APPLICATION NUMBER: U.S. 60/087,862
/ PRIOR FILING DATE: 1998-06-03
/ PRIOR APPLICATION NUMBER: PCT/US99/12235
/ PRIOR FILING DATE: 1999-06-02
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:Primer PRR2A8
US-09-723-368-5
```

```
Query Match      0.9%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1708 AAGCAGAGUACGACGAG 1725
Db      3 AAGCAGAGUACGACGAG 20
```

RESULT 13

```
US-09-922-146-22
/ Sequence 22, Application US/09922146
/ Patent No. 6566133
/ GENERAL INFORMATION:
/ APPLICANT: Lex M. Cowsett.
/ APPLICANT: Brett P. Monia
/ TITLE OF INVENTION: ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 9 EXPRESSION
/ FILE REFERENCE: RTS-0252
/ CURRENT APPLICATION NUMBER: US/09/922,146
/ CURRENT FILING DATE: 2001-08-01
/ NUMBER OF SEQ ID NOS: 48
/ SEQ ID NO 22
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Antisense Oligonucleotide
US-09-922-146-22
```

```
Query Match      0.9%; Score 16; DB 1; Length 20;
Best Local Similarity 93.8%; Pred. No. 28;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1464 AGGGCCCGAGCCCTC 1479
Db      3 AGGGCCCGAGCCCTC 18
```

```
RESULT 14
US-08-894-784-13
/ Sequence 13, Application US/08894784
/ Patent No. 6005095
/ GENERAL INFORMATION:
/ APPLICANT: Capaccioli, Sergio
/ APPLICANT: Morelli, Susanna
```

APPLICANT: Nicolin, Angelo
TITLE OF INVENTION: ANTISENSE TRANSCRIPT ASSOCIATED TO TUMOR
TITLE OF INVENTION: CELLS HAVING A T(14;18) TRANSLOCATION AND
TITLE OF INVENTION: OLIGODEOXYNUCLEOTIDES USEFUL IN THE DIAGNOSIS AND
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: PINNEGAN, HENDERSON, PARABOW, GARRETT &
ADDRESSEE: DUNNER, LLP
STREET: 1300 I Street, NW
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/894,784
FILING DATE: 15-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP96/00852
FILING DATE: 02-MAR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL M195 A 000420
FILING DATE: 03-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Paul, John C.
REGISTRATION NUMBER: 30,413
REFERENCE/DOCKET NUMBER: 05999.0005-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-894-784-13

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 26;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 631 GUUGAAGAAGAACUGU 647
| : ||||| : || : |
DB 2 GCTGGAAGAAGAACTGT 18

RESULT 15
US-08-894-784-32/c
Sequence 32, Application US/08894784
Patent No. 6005095
GENERAL INFORMATION:
APPLICANT: Capaccioli, Sergio
APPLICANT: Morelli, Susanna
APPLICANT: Nicolin, Angelo
TITLE OF INVENTION: ANTISENSE TRANSCRIPT ASSOCIATED TO TUMOR
TITLE OF INVENTION: CELLS HAVING A T(14;18) TRANSLOCATION AND
TITLE OF INVENTION: OLIGODEOXYNUCLEOTIDES USEFUL IN THE DIAGNOSIS AND
TITLE OF INVENTION: TREATMENT OF SAID TUMOR CELLS
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: PINNEGAN, HENDERSON, PARABOW, GARRETT &
ADDRESSEE: DUNNER, LLP
STREET: 1300 I Street, NW
CITY: Washington
STATE: DC
COUNTRY: USA

ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/894,784
FILING DATE: 15-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP96/00852
FILING DATE: 02-MAR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL M195 A 000420
FILING DATE: 03-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Paul, John C.
REGISTRATION NUMBER: 30,413
REFERENCE/DOCKET NUMBER: 05999.0005-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-894-784-32

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 26;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 631 GUUGAAGAAGAACUGU 647
| : ||||| : || : |
DB 17 GCTGGAAGAAGAACTGT 1

RESULT 16
US-08-894-736-7
Sequence 7, Application US/08894736A
Patent No. 6140492
GENERAL INFORMATION:
APPLICANT: MORELLI, Susanna
APPLICANT: NICOLINI, Angelo
APPLICANT: QUATTROME, Alessandro
TITLE OF INVENTION: ANTISENSE TRANSCRIPT EXPRESSED IN B LYMPHOCYTES AND
TITLE OF INVENTION: SYNTHETIC OLIGONUCLEOTIDES USEFUL TO INHIBIT THE
TITLE OF INVENTION: ACTIVITY THEREOF
FILE REFERENCE: 10309-0002-0PCT
CURRENT APPLICATION NUMBER: US/08/894,736A
CURRENT FILING DATE: 1998-04-06
EARLIER APPLICATION NUMBER: PCT/EP96/00853
EARLIER FILING DATE: 1996-03-01
EARLIER APPLICATION NUMBER: IT M195A000419
EARLIER FILING DATE: 1997-03-03
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 18
TYPE: DNA
ORGANISM: Homo sapiens
US-08-894-736-7

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 26;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 631 GUUGAAGAAGAACUGU 647
| : ||||| : || : |
DB 2 GCTGGAAGAAGAACTGT 18

RESULT 17
US-08-894-736-17/c
; Sequence 17, Application US/08894736A
; Patent No. 6140492
; GENERAL INFORMATION:
; APPLICANT: MORELLI, Susanna
; APPLICANT: NICOLIN, Angelo
; APPLICANT: QUATRONO, Alessandro
; TITLE OF INVENTION: ANTISENSE TRANSCRIPT EXPRESSED IN B LYMPHOCYTES AND
; TITLE OF INVENTION: SYNTHETIC OLIGONUCLEOTIDES USEFUL TO INHIBIT THE
; FILE REFERENCE: 10309-0002-0PCT
; CURRENT APPLICATION NUMBER: US/08/894,736A
; EARLIER FILING DATE: 1998-04-06
; EARLIER APPLICATION NUMBER: PCT/EP96/00853
; EARLIER FILING DATE: 1996-03-01
; EARLIER APPLICATION NUMBER: IT M195A000419
; EARLIER FILING DATE: 1997-03-03
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
US-08-894-736-17

Query Match 0.9%; Score 15.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 26;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 631 GUGGAAAGAGAAUCUG 647
DB 17 GCTGAAAGAGAACTGT 1

RESULT 18
US-09-422-978-6934
; Sequence 6934, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marla
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/09/422,978
; EARLIER FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 6934
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-21533 for SEQ 3000,
US-09-422-978-6934

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 30;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 38 UCCAAACAUCACTCC 54
DB 3 TTCCAACATCAGCTCC 19

RESULT 19
US-09-422-978-7458
; Sequence 7458, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marla
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/09/422,978
; EARLIER FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 7458
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-4874 for SEQ 3524,
US-09-422-978-7458

Query Match 0.9%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 30;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 684 GCCCACCACUUCUUG 700
DB 1 GCCCACCCTACTTTTG 17

RESULT 20
US-09-197-380-27
; Sequence 27, Application US/09197380
; Patent No. 6096543
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEX1 EXPRESSION
; FILE REFERENCE: RTS-0016
; CURRENT APPLICATION NUMBER: US/09/197,380
; EARLIER FILING DATE: 1998-11-20
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-197-380-27

Query Match 0.8%; Score 15; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 31;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 40 CCAACAUCACTCC 54
DB 4 CCAACATCAGCTCC 18

RESULT 21
US-09-256-496-26/c
; Sequence 26, Application US/09256496
; Patent No. 5998206

GENERAL INFORMATION:
APPLICANT: Lex M. Cowser
TITLE OF INVENTION: ANTISENSE MODULATION OF G-APLHA-12 EXPRESSION
FILE REFERENCE: RTS-0056
CURRENT APPLICATION NUMBER: US/09/256,496
CURRENT FILING DATE: 1999-02-23
NUMBER OF SEQ ID NOS: 86
SEQ ID NO: 26
LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Antisense Oligonucleotide
US-09-256-496-26

Query Match 0.8%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 33;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 246 CAUCCGCGCACACUCCU 263
DB 18 CATCTCGACACATCTCT 1

RESULT 22
US-09-043-085-17
Sequence 17, Application US/09043085
Patent No. 6083685
GENERAL INFORMATION:
APPLICANT: Juraj Petrik
TITLE OF INVENTION: SYSTEMATIC EXTRACTION, AMPLIFICATION AND
TITLE OF INVENTION: DETECTION OF RETROVIRAL SEQUENCES, AND OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: SALIMANCHIK, LLOYD & SALIMANCHIK
STREET: 2421 NW 41st STREET, SUITE A-1
CITY: GAINESVILLE
STATE: FLORIDA
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/043,085
FILING DATE: 6-MAR-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/02196
FILING DATE: 6-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: PACE, DORAN R.
REGISTRATION NUMBER: 38,261
REFERENCE/DOCKET NUMBER: GJE-20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 352-375-8100
TELEFAX: 352-372-5800
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Oligonucleotide"
US-09-043-085-17

Query Match 0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 36;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1113 UCCGGUCACAGACCA 1129
DB 2 TCTGAGTCACGACCA 18

RESULT 23
US-09-043-085-41/C
Sequence 41, Application US/09043085
Patent No. 6083685
GENERAL INFORMATION:
APPLICANT: Juraj Petrik
TITLE OF INVENTION: SYSTEMATIC EXTRACTION, AMPLIFICATION AND
TITLE OF INVENTION: DETECTION OF RETROVIRAL SEQUENCES, AND OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: SALIMANCHIK, LLOYD & SALIMANCHIK
STREET: 2421 NW 41st STREET, SUITE A-1
CITY: GAINESVILLE
STATE: FLORIDA
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/043,085
FILING DATE: 6-MAR-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/02196
FILING DATE: 6-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: PACE, DORAN R.
REGISTRATION NUMBER: 38,261
REFERENCE/DOCKET NUMBER: GJE-20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 352-375-8100
TELEFAX: 352-372-5800
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Oligonucleotide"
US-09-043-085-41

Query Match 0.8%; Score 14.6; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 36;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1113 UCCGGUCACAGACCA 1129
DB 17 TCTGAGTCACGACCA 1

RESULT 24
US-08-720-625-7/C
Sequence 7, Application US/08720625
Patent No. 6242587
GENERAL INFORMATION:
APPLICANT: Naik, Ulhas P.
TITLE OF INVENTION: CALCIUM-INTRERIN BINDING PROTEIN
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Bell, Seltzer, Park & Gibson
STREET: P.O. Drawer 34009


```

; CITY: Charlotte
; STATE: No. 6242587ch Carolina
; COUNTRY: USA
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/720,625
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5470-138
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-420-2200
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "DNA primer"
;
US-08-720-625-7
```

```

Query Match          0.8%; Score 14.4; DB 1; Length 17;
Best Local Similarity 68.8%; Pred. No. 34;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      248 UCAUCCGCAACATCCU 263
      :|||:|||:|||:
Db      16 TCATGCACACATCCCT 1
```

```

RESULT 25
US-09-268-544B-25
; Sequence 25, Application US/09268544B
; Patent No. 6410710
; GENERAL INFORMATION:
; APPLICANT: Lederman, Seth
; TITLE OF INVENTION: TRAP-3 Deletion Isoforms And Uses Thereof
; FILE REFERENCE: 0575-58732
; CURRENT APPLICATION NUMBER: US/09/268,544B
; CURRENT FILING DATE: 1999-03-11
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 25
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Human
US-09-268-544B-25
```

```

Query Match          0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 62.5%; Pred. No. 39;
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1393 AAGAGGUGUCUCUGA 1408
      |||||:||||:|
Db      2 AAGAGGTTGCTCTCA 17
```

```

RESULT 26
US-09-475-947A-249
; Sequence 249, Application US/09475947A
; Patent No. 6472154
; GENERAL INFORMATION:
; APPLICANT: Garner, Harold R.
```

```

; APPLICANT: Wren, Jonathan D.
; APPLICANT: Minna, John D.
; TITLE OF INVENTION: Polymorphic Repeats in Human Genes
; FILE REFERENCE: UTS00667
; CURRENT APPLICATION NUMBER: US/09/475,947A
; CURRENT FILING DATE: 1999-12-31
; NUMBER OF SEQ ID NOS: 346
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 249
; LENGTH: 18
; TYPE: DNA
; ORGANISM: human
US-09-475-947A-249
```

```

Query Match          0.8%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 39;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1701 GAGCGCGACAGCAG 1716
      |||||:|||:|||
Db      1 GAGCGCGAGCAGCAG 16
```

```

RESULT 27
US-09-209-676-84
; Sequence 84, Application US/09209676
; Patent No. 6524856
; GENERAL INFORMATION:
; APPLICANT: Pangene Corporation
; TITLE OF INVENTION: The Use of Consensus Sequences for Targeted Homologous
; FILE REFERENCE: A-65678-1/RFT/NBC
; CURRENT APPLICATION NUMBER: US/09/209,676
; CURRENT FILING DATE: 2002-06-18
; PRIOR APPLICATION NUMBER: US 60/070,734
; PRIOR FILING DATE: 1997-12-11
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 84
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (3)
; OTHER INFORMATION: "n" at position 3 can be any base.
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-209-676-84
```

```

Query Match          0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 35.3%; Pred. No. 39;
Matches 6; Conservative 10; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      304 GUCACACUACUCCU 320
      |:|:|:|:|:|:|:|
Db      1 GTNAAYAAATYATYYT 17
```

```

RESULT 28
US-08-127-954-39
; Sequence 39, Application US/08127954
; Patent No. 5451512
; GENERAL INFORMATION:
; APPLICANT: Apple, Raymond J.
; APPLICANT: Bugawan, Teodorica L.
; APPLICANT: Erlich, Henry A.
; TITLE OF INVENTION: Methods and Reagents for HLA Class I A
; NUMBER OF SEQUENCES: 173
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hoffmann-La Roche Inc.
; STREET: 340 Kingsland Street
```

CITY: Nutley
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07110-1199
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/127,954
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: Petry, Douglas A.
REGISTRATION NUMBER: 35,321
REFERENCE/DOCKET NUMBER: 8873
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 814-2974
TELEFAX: (510) 814-2977
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-127-954-39

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 42;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1420 CAGATCACCAGCGGCAA 1436
DB 1 CAGATCACCAGCGGCAA 17

RESULT 29
US-08-366-783-15
Sequence 15, Application US/08366783
Patent No. 5650554
GENERAL INFORMATION:
APPLICANT: Moloney, Maurice M
TITLE OF INVENTION: Oil-Body Proteins As Carriers Of
TITLE OF INVENTION: High-Value Peptides In Plants
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSER: DEHLINGER & ASSOCIATES
STREET: 350 CAMBRIDGE AVENUE, SUITE 250
CITY: PALO ALTO
STATE: California
COUNTRY: United States
ZIP: 94025-1536
TELEPHONE: (415) 324-0980
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-366-783-15

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 42;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1343 GUAAAGCAGCGGCACU 1359
DB 1 GTAAAGCAGCGGCAGT 17

RESULT 30
US-08-985-162-262
Sequence 262, Application US/08985162
Patent No. 6057156
GENERAL INFORMATION:
APPLICANT: Akhtar, Saghir
APPLICANT: Fell, Patricia
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
TITLE OF INVENTION: FACTOR RECEPTORS
NUMBER OF SEQUENCES: 1877
CORRESPONDENCE ADDRESS:
ADDRESSER: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,162
FILING DATE: 04 December 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/107
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 262:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-985-162-262

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 42;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 756 GAGGATCUUAAAGGAA 772
DB 1 GAGGATCUUAAAGGAA 17

RESULT 31
US-08-584-040-4100
; Sequence 4100, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwigen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-584-040-4100

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 42;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 606 UGCCAUCUCUUCUGGC 622
DB 1 UGCCAUCUCUUCUGGC 17

RESULT 32
US-08-584-040-5674
; Sequence 5674, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwigen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS

; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5674:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-584-040-5674

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 42;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 606 UGCCAUCUCUUCUGGC 622
DB 1 UGCCAUCUCUUCUGGC 17

RESULT 33
US-09-474-432B-647
; Sequence 647, Application US/09474432B
; Patent No. 6528640
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Burgin, Alex
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka
; APPLICANT: Sweedler, David
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
; FILE REFERENCE: MBH00-831-B (247/276)
; CURRENT APPLICATION NUMBER: US/09/474,432B
; CURRENT FILING DATE: 1999-12-19
; PRIOR APPLICATION NUMBER: US 60/064,866
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/084,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: US 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: US 09/301,511

```

; PRIOR FILING DATE: 1999-04-28
; NUMBER OF SEQ ID NOS: 1526
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 647
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-474-432B-647

Query Match
Best Local Similarity 88.2%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1626 GUGCUAUGGUCUGGCA 1642
DB 1 GUGCUAUGGUCUGGCA 17

RESULT 34
US-09-474-432B-884
; Sequence 884, Application US/09474432B
; Patent No. 6528640
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Burgin, Alex
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka
; APPLICANT: Sweedler, David
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
; FILE REFERENCE: MBH00-831-B (247/276)
; CURRENT APPLICATION NUMBER: US/09/474,432B
; PRIOR FILING DATE: 1999-12-19
; PRIOR APPLICATION NUMBER: US 60/064,866
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/084,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: US 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: US 09/301,511
; PRIOR FILING DATE: 1999-04-28
; NUMBER OF SEQ ID NOS: 1526
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 884
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-474-432B-884

Query Match
Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 406 UURGGGAACUUGGCTUG 422
DB 1 UURGGGAACUUGGCTUG 17

RESULT 35
US-09-371-772B-1867
; Sequence 1867, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MBH00,876-J (237/198)
```

```

; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1867
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-1867

Query Match
Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 606 UGCCAUCUGUUCUGGC 622
DB 1 UGCCAUCUGUUCUGGC 17

RESULT 36
US-09-476-387-646
; Sequence 646, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
; FILE REFERENCE: MBH00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 646
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-476-387-646

Query Match
Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1626 GUGCUAUGGUCUGGCA 1642
DB 1 GUGCUAUGGUCUGGCA 17

RESULT 37
US-09-476-387-883
; Sequence 883, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
```

```
APPLICANT: Beaudry, Amber
APPLICANT: Karpelsky, Alex
APPLICANT: Adamic, Jasenka Matulic
APPLICANT: Sweedler, Dave
APPLICANT: Zimnen, Shawn
TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
FILE REFERENCE: MBH00-831-C (249/073)
CURRENT APPLICATION NUMBER: US/09/476,387
PRIOR FILING DATE: 2001-04-04
PRIOR APPLICATION NUMBER: 09/474,432
PRIOR FILING DATE: 1999-12-29
PRIOR APPLICATION NUMBER: 09/301,511
PRIOR FILING DATE: 1999-04-28
PRIOR APPLICATION NUMBER: 09/186,675
PRIOR FILING DATE: 1998-11-04
PRIOR APPLICATION NUMBER: 60/083,727
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/064,866
PRIOR FILING DATE: 1997-11-05
NUMBER OF SEQ ID NOS: 1524
SOFTWARE: PatentIn version 3.0
SEQ ID NO 883
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
US-09-476-387-883

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 42;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      406 UUAGGGAACUUGGCCUG 422
DB      1 UUAGGGAAGCTGCGCCUG 17
|||||
|||||

RESULT 38
US-09-401-063-262
Sequence 262, Application US/09401063
Patent No. 6623962
GENERAL INFORMATION:
APPLICANT: Akhtar, Saghir
APPLICANT: Fell, Patricia
APPLICANT: McSwiggen, James
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
TITLE OF INVENTION: FACTOR RECEPTORS
NUMBER OF SEQUENCES: 1877
CORRESPONDENCE ADDRESS:
ADDRESSER: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/401,063
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/985,162
FILING DATE: 04 December 1997
APPLICATION NUMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
```

```
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,337
REFERENCE/DOCKET NUMBER: 230/107
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 262:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-401-063-262

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 42;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      756 GAGGAGUCUAGAGAAA 772
DB      1 GAGGAGUCUAGAGAAA 17
|||||
|||||

RESULT 39
US-09-827-998-636/c
Sequence 636, Application US/09827998
Patent No. 6656700
GENERAL INFORMATION:
APPLICANT: Gu, Yizhong
APPLICANT: Shannon, Mark
TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
FILE REFERENCE: MDHMRP-8
CURRENT APPLICATION NUMBER: US/09/827,998
CURRENT FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
NUMBER OF SEQ ID NOS: 1881
SOFTWARE: Acomica Sequence Listing Engine
Patent No. 6656700
SEQ ID NO 636
LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
US-09-827-998-636

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 64.7%; Pred. No. 42;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1674 GCUCGUGGCCGAGUG 1690
DB      17 GCCGCTGCGCAGTGTG 1
|||||
|||||

RESULT 40
US-09-866-108A-2301
Sequence 2301, Application US/09866108A
Patent No. 6686188
GENERAL INFORMATION:
APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
APPLICANT: PENN, Sharon G.
APPLICANT: HANZEL, David K.
APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108A
CURRENT FILING DATE: 2001-05-25
```

```

; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecmca Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 2301
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-2301
```

```

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 42;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      990 CCACAGCAGCAGCAGCA 1006
DB      1 CCACAGCCGCGACGCGCA 17
```

```

RESULT 41
; Sequence 104, Application US/09404912
; Patent No. 6703228
; GENERAL INFORMATION:
; APPLICANT: John Landers
; APPLICANT: David Houseman
; APPLICANT: Barbara Jordan
; APPLICANT: Alain Charest
; TITLE OF INVENTION: Methods and Products Related to
; FILE REFERENCE: M0656/7045(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/404,912
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: US 60/101,757
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22283
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 691
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 104
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-404-912-104
```

```

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 42;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1567 AAAACCUUUUGAUCU 1583
DB      17 AAAACTTTTGAATCT 1
```

```

RESULT 42
US-09-404-912-106/c
; Sequence 106, Application US/09404912
; Patent No. 6703228
; GENERAL INFORMATION:
; APPLICANT: John Landers
; APPLICANT: David Houseman
; APPLICANT: Barbara Jordan
; APPLICANT: Alain Charest
; TITLE OF INVENTION: Methods and Products Related to
; FILE REFERENCE: M0656/7045(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/404,912
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: US 60/101,757
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22283
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 691
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 106
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-404-912-106
```

```

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 42;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1567 AAAACCUUUUGAUCU 1583
DB      17 AAAACTTTTGAATCT 1
```

```

RESULT 43
US-09-685-664B-1867
; Sequence 1867, Application US/09685664B
; Patent No. 6818447
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwigen, Jim
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: Method and Reagent for Treatment of Diseases or Conditions Relate
; FILE REFERENCE: MBH00-876-K (400/021)
; CURRENT APPLICATION NUMBER: US/09/685,664B
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; PRIOR APPLICATION NUMBER: US 09/371,772
; PRIOR FILING DATE: 1999-08-10
; NUMBER OF SEQ ID NOS: 8231
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1867
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-685-664B-1867
```

```

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 42;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      606 UGCCAUCUUGUUGGC 622
DB      1 UGCCAUGUUCUUGGC 17
```

```
RESULT 44
US-10-156-306B-1487
; Sequence 1487, Application US/10156306B
; Patent No. 7022828
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306B
; NUMBER OF SEQ ID NOS: 8014
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1487
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306B-1487

Query Match
Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1385 CUCUGGCAAGAGUUU 1401
DB 1 CUGUGGACAAGAGUUU 17

RESULT 45
US-10-156-306B-2310
; Sequence 2310, Application US/10156306B
; Patent No. 7022828
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306B
; NUMBER OF SEQ ID NOS: 8014
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2310
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306B-2310

Query Match
Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 999 CAGUGACAGUUGAACA 1015
DB 1 CAGUGACAGUUGAACA 17

RESULT 46
US-10-138-674B-1867
; Sequence 1867, Application US/10138674B
; Patent No. 7034009
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: MCSwigen, James
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674B
```

```
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20829
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1867
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674B-1867

Query Match
Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 606 UGCCAUCUUCUUCGCG 622
DB 1 UGCCAUCUUCUUCGCG 17

RESULT 47
US-10-138-674B-7793/C
; Sequence 7793, Application US/10138674B
; Patent No. 7034009
; GENERAL INFORMATION:
; APPLICANT: Sirta Therapeutics, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: MCSwigen, James
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674B
; NUMBER OF SEQ ID NOS: 20829
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7793
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674B-7793

Query Match
Best Local Similarity 0.8%; Score 13.8; DB 1; Length 17;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1023 UGUGUGUGCCUCCUGG 1039
DB 17 TGCTGCTGTCGCCCTGG 1

RESULT 48
US-08-585-684B-137/C
; Sequence 137, Application US/08585684B
; Patent No. 5877021
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.
; APPLICANT: Jarvis, Thale
; APPLICANT: MCSwigen, James
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
; TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
; NUMBER OF SEQUENCES: 2751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: Storage
```

COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 137:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-137

Query Match
Best Local Similarity 66.7%; Pred. No. 36;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 486 CAGCUTUGACAGAU 500
Db 15 CAGCTTGACTGATA 1

RESULT 49
US-09-038-073-137/c
Sequence 137, Application US/09038073
Patent No. 6194150
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRANT TOLERANCE
AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038,073
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/585,684
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440

TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 137:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-038-073-137

Query Match
Best Local Similarity 66.7%; Pred. No. 36;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 486 CAGCUTUGACAGAU 500
Db 15 CAGCTTGACTGATA 1

RESULT 50
US-09-475-947A-60
Sequence 60, Application US/09475947A
Patent No. 6472154
GENERAL INFORMATION:
APPLICANT: Garner, Harold R.
APPLICANT: Wren, Jonathan D.
APPLICANT: Minna, John D.
TITLE OF INVENTION: Polymorphic Repeats in Human Genes
FILE REFERENCE: UTS00667
CURRENT APPLICATION NUMBER: US/09/475,947A
CURRENT FILING DATE: 1999-12-31
NUMBER OF SEQ ID NOS: 346
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 60
LENGTH: 16
TYPE: DNA
ORGANISM: human
US-09-475-947A-60

Query Match
Best Local Similarity 93.3%; Pred. No. 43;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 815 GGACAGAGCAGAGA 829
Db 1 GGAGAGGCGCAGGA 15

RESULT 51
US-09-826-509-279/c
Sequence 279, Application US/09826509
Patent No. 6806054
GENERAL INFORMATION:
APPLICANT: Lehmann-Brunisma, Karin
APPLICANT: Liaw, Chen W.
APPLICANT: Lin, I-Lin
TITLE OF INVENTION: Protein-coupled Receptors
TITLE OF INVENTION: Constitutively Activated Known G
FILE REFERENCE: AREN-207
CURRENT APPLICATION NUMBER: US/09/826,509
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 60/195,747
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: 09/170,496
PRIOR FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 589
SOFTWARE: PatentIn Version 2.1
SEQ ID NO 279
LENGTH: 37
TYPE: DNA
ORGANISM: Homo sapiens
US-09-826-509-279

Query Match
0.7%; Score 13.2; DB 1; Length 37;

Best Local Similarity 38.9%; Pred. No. 1.1e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

Qy 204 GGUUCUACGCGUUCU 221
Db 28 GGTCTGTTGCTTCTT 11

RESULT 52

US-09-826-509-280
; Sequence 280, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Brunema, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; TITLE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: Patentin Version 2.1
; SEQ ID NO 280
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-280

Query Match 0.7%; Score 13.2; DB 1; Length 37;
Best Local Similarity 38.9%; Pred. No. 1.1e+02;
Matches 7; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

Qy 204 GGUUCUACGCGUUCU 221
Db 10 GGTCTGTTGCTTCTT 27

RESULT 53

US-08-311-486C-41/c
; Sequence 41, Application US/08311486C
; Patent No. 5811300
; GENERAL INFORMATION:
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth Draper
; APPLICANT: Kevin Kisch
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwigen
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; TITLE OF INVENTION: TNF-
; NUMBER OF SEQUENCES: 1157
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311,486C

; FILING DATE: September 23, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; APPLICATION NUMBER: 08/008,895
; FILING DATE: January 19, 1993
; APPLICATION NUMBER: 07/989,849
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/166
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440

; TELEEX: 67-3510
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-311-486C-41

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 42;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1231 CAGAGAGCGUG 1243
Db 13 CAGAGAGCGTGG 1

RESULT 54

US-08-311-486C-553/c
; Sequence 553, Application US/08311486C
; Patent No. 5811300
; GENERAL INFORMATION:
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth Draper
; APPLICANT: Kevin Kisch
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwigen
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; TITLE OF INVENTION: TNF-
; NUMBER OF SEQUENCES: 1157
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311,486C
; FILING DATE: September 23, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; APPLICATION NUMBER: 08/008,895
; FILING DATE: January 19, 1993
; APPLICATION NUMBER: 07/989,849

FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/166
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 553:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-311-486C-553

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 42;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1231 CAGAAGCGCTGG 1243
DB 13 CAGAAGCGCTGG 1

RESULT 55
US-08-292-620A-394/c
Sequence 394, Application US/08292620A
Patent No. 5837542
GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/292,620A
FILING DATE: August 17, 1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 394:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-292-620A-394

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 42;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUACAGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 56
US-08-292-620A-616/c
Sequence 616, Application US/08292620A
Patent No. 5837542
GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/292,620A
FILING DATE: August 17, 1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 616:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
US-08-292-620A-616

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 42;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUCCAGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 57
US-09-071-845-394/c
Sequence 394, Application US/09071845
Patent No. 6132967

GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,845
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/292,620
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 394:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-845-394

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 42;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUCCAGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 58
US-09-071-845-616/c
Sequence 616, Application US/09071845
Patent No. 6132967

GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,845
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/292,620
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 616:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-845-616

Query Match 0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 42;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 506 CCAUCCAGAGGCC 518
DB 15 CCATCAGAGGCC 3

RESULT 59
US-09-474-432B-97/c

```
; Sequence 97, Application US/09474432B
; Patent No. 6528640
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Burgin, Alex
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpelisky, Alex
; APPLICANT: Adamic, Jasenka
; APPLICANT: Sweedler, David
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
; FILE REFERENCE: MBH00-831-B (247/276)
; CURRENT APPLICATION NUMBER: US/09/474,432B
; PRIOR FILING DATE: 1999-12-19
; PRIOR APPLICATION NUMBER: US 60/064,866
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/084,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: US 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: US 09/301,511
; PRIOR FILING DATE: 1999-04-28
; NUMBER OF SEQ ID NOS: 1526
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 97
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-474-432B-97
```

```
Query Match      0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 42;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

Qy 861 UCGAGCUCGACG 873

Db 14 TCGAAGCTGCAGC 2

```
RESULT 60
US-09-476-387-97/c
; Sequence 97, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpelisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
; FILE REFERENCE: MBH00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 97
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-476-387-97
```

```
Query Match      0.7%; Score 13; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 42;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

Qy 861 UCGAGCUCGACG 873

Db 14 TCGAAGCTGCAGC 2

```
RESULT 61
US-08-770-235A-54/c
; Sequence 54, Application US/08770235A
; Patent No. 5939538
; GENERAL INFORMATION:
; APPLICANT: Leavitt, Markley C.
; APPLICANT: Tritz, Richard
; APPLICANT: Feng, Yu
; APPLICANT: Barber, Jack
; APPLICANT: Yu, Mang
; TITLE OF INVENTION: Methods and Compositions for Inhibiting
; TITLE OF INVENTION: HIV Infection of Cells By Cleaving HIV Co-Receptor RNA
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/770,235A
; FILING DATE: 19-DEC-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/027,875
; FILING DATE: 25-OCT-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: QUINE, Jonathan A.
; REGISTRATION NUMBER: P-41,261
; REFERENCE/DOCKET NUMBER: 016556-001610US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 54:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: RNA
US-08-770-235A-54

Query Match      0.7%; Score 13; DB 1; Length 16;
Best Local Similarity 84.6%; Pred. No. 49;
Matches 11; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1238 GCGUGAGCAGUG 1250

Db 13 GCGUGAGCAGUG 1

```
RESULT 62
US-09-479-005A-230/c
; Sequence 230, Application US/09479005A
; Patent No. 6656731
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
```

;; TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
;; FILE REFERENCE: MBH800-884-C
;; CURRENT APPLICATION NUMBER: US/09/479,005A
;; CURRENT FILING DATE: 2000-01-07
;; PRIOR APPLICATION NUMBER: US 09/444,209
;; PRIOR FILING DATE: 1999-11-19
;; PRIOR APPLICATION NUMBER: US 09/159,274
;; PRIOR FILING DATE: 1998-09-22
;; PRIOR APPLICATION NUMBER: US 60/059,473
;; PRIOR FILING DATE: 1997-09-22
;; NUMBER OF SEQ ID NOS: 1208
;; SOFTWARE: Patent version 3.0
;; SEQ ID NO 230
;; LENGTH: 16
;; TYPE: RNA
;; ORGANISM: Homo sapiens
US-09-479-005A-230

Query Match 0.7%; Score 13; DB 1; Length 16;
Best Local Similarity 92.3%; Pred. No. 49;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 990 CCACGACGACG 1002
DB 14 CCACGACGACG 2

RESULT 63
US-08-152-313-15
; Sequence 15, Application US/08152313
; Patent No. 5561041
; GENERAL INFORMATION:
; APPLICANT: Sidransky, David
; TITLE OF INVENTION: NUCLEIC ACID MUTATION DETECTION BY
; NUMBER OF SEQUENCES: 128
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Spensley Horn Judas & Lubitz
; STREET: 1880 Century Park East, Suite 500
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90067
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,313
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Wetherell, Jr., Ph.D., John R.,
; REGISTRATION NUMBER: 31,678
; REFERENCE/DOCKET NUMBER: PD-2912
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 455-5100
; TELEFAX: (619) 455-5110
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..16
US-08-152-313-15

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 75.0%; Pred. No. 53;

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 45 CAACGACGACG 60
DB 1 CACGACGACGCTCTGG 16

RESULT 64
US-08-474-177-21/C
; Sequence 21, Application US/08474177
; Patent No. 5624819
; GENERAL INFORMATION:
; APPLICANT: Skolnick, Mark H.
; APPLICANT: Cannon-Albright, Lisa A.
; APPLICANT: Kamb, Alexander
; TITLE OF INVENTION: GERMLINE MUTATIONS IN THE MTS GENE
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
; STREET: 1201 New York Avenue, Suite 1000
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,177
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/03537
; FILING DATE: 17-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/251,938
; FILING DATE: 01-JUN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/215,087
; FILING DATE: 18-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/215,086
; FILING DATE: 18-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/227,369
; FILING DATE: 14-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/214,582
; FILING DATE: 18-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ihmen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24684-109348-E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-962-4610
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-08-474-177-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;

Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1465 GCGGCCAGACCCUCA 1480
 |||||
 Db 16 GCTGGCCAGACCTCA 1

RESULT 65
 US-08-579-223-15
 ; Sequence 15, Application US/08579223
 ; Patent No. 5726019
 ; GENERAL INFORMATION:
 ; APPLICANT: Sidransky, David
 ; TITLE OF INVENTION: NUCLEIC ACID MUTATION DETECTION BY
 ; NUMBER OF INVENTIONS: ANALYSIS OF SPUTUM
 ; NUMBER OF SEQUENCES: 128
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Spensley Horn Judas & Lubitz
 ; STREET: 1880 Century Park East, Suite 500
 ; CITY: Los Angeles
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 90067
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/579,223
 ; FILING DATE: 28-DEC-1995
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; PRIORITY APPLICATION NUMBER: 08/152,313
 ; FILING DATE: 12-NOV-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wetherell, Jr., Ph.D., John R.,
 ; REGISTRATION NUMBER: 31,678
 ; REFERENCE/DOCKET NUMBER: PD-2912
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 455-5100
 ; TELEFAX: (619) 455-5110
 ; INFORMATION FOR SEQ ID NO: 15:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 16 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..16
 ; US-08-579-223-15

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 75.0%; Pred. No. 53;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 45 CAUCAGCUCUCCUGG 60
 |||||
 Db 1 CACGAGCCCTCCTCG 16

RESULT 66
 US-08-487-033-21/C
 ; Sequence 21, Application US/08487033
 ; Patent No. 5739027
 ; GENERAL INFORMATION:
 ; APPLICANT: Kamb, Alexander
 ; TITLE OF INVENTION: MTS1-Beta GENE
 ; NUMBER OF SEQUENCES: 36
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP

STREET: 1201 New York Avenue, Suite 1000
 CITY: Washington
 STATE: DC
 COUNTRY: USA
 ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/487,033
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; PRIORITY APPLICATION NUMBER: PCT/US95/03316
 ; FILING DATE: 17-MAR-1995
 ; PRIORITY APPLICATION DATA:
 ; PRIORITY APPLICATION NUMBER: US 08/251,938
 ; FILING DATE: 01-JUN-1994
 ; PRIORITY APPLICATION DATA:
 ; PRIORITY APPLICATION NUMBER: US 08/215,087
 ; FILING DATE: 18-MAR-1994
 ; PRIORITY APPLICATION DATA:
 ; PRIORITY APPLICATION NUMBER: US 08/215,086
 ; FILING DATE: 18-MAR-1994
 ; PRIORITY APPLICATION DATA:
 ; PRIORITY APPLICATION NUMBER: US 08/227,369
 ; FILING DATE: 14-APR-1994
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/214,582
 ; FILING DATE: 18-MAR-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Innen, Jeffrey L.
 ; REGISTRATION NUMBER: 28,957
 ; REFERENCE/DOCKET NUMBER: 24884-109348-C
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-962-4810
 ; TELEFAX: 202-962-8300
 ; INFORMATION FOR SEQ ID NO: 21:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 16 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; ORIGINAL SOURCE:
 ; ORGANISM: Homo sapiens
 ; US-08-487-033-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
 Best Local Similarity 81.2%; Pred. No. 53;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1465 GCGGCCAGACCCUCA 1480
 |||||
 Db 16 GCTGGCCAGACCTCA 1

RESULT 67
 US-08-480-810-21/C
 ; Sequence 21, Application US/08480810
 ; Patent No. 5801236
 ; GENERAL INFORMATION:
 ; APPLICANT: Kamb, Alexander
 ; TITLE OF INVENTION: MTS1 GENE
 ; NUMBER OF SEQUENCES: 36
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
 ; STREET: 1201 New York Avenue, Suite 1000
 ; CITY: Washington

STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,810
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,086
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-480-810-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1465 GCGGCCGAGCCCTCA 1480
Db 16 GCTGCCAGACCTCA 1

RESULT 68
US-08-527-060-10
Sequence 10, Application US/08527060
Patent No. 584440
GENERAL INFORMATION:
APPLICANT: Goldenberg, Tavi
APPLICANT: Tritz, Richard
TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT
OF INFECTIONS AND/OR PREVENTION OF RECURRENT
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle

STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/527,060
FILING DATE: 12-SEP-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: McMaister, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 480124.402C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-527-060-10

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 53;
Matches 8; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 725 UGCGUCGACCAUUAU 740
Db 1 TGACTCTCCATTAT 16

RESULT 69
US-08-508-735-21/c
Sequence 21, Application US/08508735
Patent No. 5843756
GENERAL INFORMATION:
APPLICANT: Stone, Steven
APPLICANT: Jiang, Ping
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS GENE AND THERAPEUTIC USE THEREOF
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/508,735
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US to be assigned
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348
TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-962-4848
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-508-735-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCCUCA 1480
DB 16 GCTGGCCAGACCCCTCA 1

RESULT 70
US-08-848-251-21/c
Sequence 21, Application US/08848251
Patent No. 5989815
GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Cannon-Albright, Lisa A.
TITLE OF INVENTION: GERM-LINE MUTATIONS IN THE MTS GENE AND
TITLE OF INVENTION: METHOD FOR DETECTING PREDISPOSITION TO CANCER AT THE MTS
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESSES:
ADDRESSES: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/848,251
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/474,083
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: PCT/US95/03537
FILING DATE: 17-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:

NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348-G
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-848-251-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCCUCA 1480
DB 16 GCTGGCCAGACCCCTCA 1

RESULT 71
US-08-486-047-21/c
Sequence 21, Application US/08486047
Patent No. 5994095
GENERAL INFORMATION:
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS2 GENE
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESSES:
ADDRESSES: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,047
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957

REFERENCE/DOCKET NUMBER: 24884-109348-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-120-130-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1465 GCGGCCGAGACCCUCA 1480
Db 16 GCTGCCAGACCTCA 1

RESULT 72
US-09-120-130-21/c
Sequence 21, Application US/09120130
Patent No. 6037462
GENERAL INFORMATION:
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS1 GENE
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09120,130
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/480,810
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,086
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348
TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-120-130-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1465 GCGGCCGAGACCCUCA 1480
Db 16 GCTGCCAGACCTCA 1

RESULT 73
US-09-115-252-21/c
Sequence 21, Application US/09115252
Patent No. 6060301
GENERAL INFORMATION:
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS1 GENE
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09115,252
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/480,810
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,086
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348
TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-115-252-21

Query Match
Best Local Similarity 81.2%; DB 1; Length 16;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1465 GCGGCCGAGACCCUCA 1480
Db 16 GCTGGCCAGACCTCA 1

RESULT 74
US-08-986-515-21/c
Sequence 21, Application US/08986515
Patent No. 6090578
GENERAL INFORMATION:
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS1 GENE
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/986,515
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/480,810
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,086
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300

INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-986-515-21

Query Match
Best Local Similarity 81.2%; DB 1; Length 16;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1465 GCGGCCGAGACCCUCA 1480
Db 16 GCTGGCCAGACCTCA 1

RESULT 75
US-09-120-128-21/c
Sequence 21, Application US/09120128
Patent No. 6140473
GENERAL INFORMATION:
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS2 GENE
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/120,128
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/486,047
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,086
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300

INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-120-128-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGCCCTCA 1480
Db 16 GCTGGCCAGACCTCA 1

RESULT 76
US-08-765-340-152
Sequence 152, Application US/08765340
Patent No. 6150092
GENERAL INFORMATION:
APPLICANT: UCHIDA, K.,
APPLICANT: UCHIDA, T.,
APPLICANT: TANAKA, Y.,
APPLICANT: MATSUDA, Y.,
APPLICANT: KONDO, S.,
TITLE OF INVENTION: AN ANTISENSE NUCLEIC ACID
TITLE OF INVENTION: COMPOUND
NUMBER OF SEQUENCES: 185
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
SOFTWARE: #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/765,340
FILING DATE: 23-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 145146/94
FILING DATE: 27-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 311130/94
FILING DATE: 21-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: SERUNIAN, LESLIE
REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 1452-4005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
INFORMATION FOR SEQ ID NO: 152:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-765-340-152

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 68.8%; Pred. No. 53;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 674 UCCUCAGUGAGCCAC 689
Db 1 TCCTCAGTGGGACAC 16

RESULT 77
US-09-120-129-21/c
Sequence 21, Application US/09120129
Patent No. 6180776
GENERAL INFORMATION:
APPLICANT: Karb, Alexander
TITLE OF INVENTION: MTS2 GENE
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/120,129
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/486,047
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,086
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-120-129-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCTCA 1480
DB 16 GCTGGCCAGACCTCA 1

RESULT 78

US-09-201-139-21/c
Sequence 21, Application US/09201139
Patent No. 6210949
GENERAL INFORMATION:
APPLICANT: Stone, Steven
APPLICANT: Jiang, Ping
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS GENE AND THERAPEUTIC USE THEREOF
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSER: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/201,139
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/508,735
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4848
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-201-139-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCTCA 1480
DB 16 GCTGGCCAGACCTCA 1

RESULT 79

US-09-120-131-21/c

Sequence 21, Application US/09120131
Patent No. 6218146

GENERAL INFORMATION:
APPLICANT: Kamb, Alexander
TITLE OF INVENTION: MTS2 GENE
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSER: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/120,131
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/486,047
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: PCT/US95/03316
FILING DATE: 17-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/251,938
FILING DATE: 01-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,087
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/215,086
FILING DATE: 18-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,369
FILING DATE: 14-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/214,582
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109348-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-120-131-21

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 53;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1465 GCGGCCGAGACCTCA 1480
DB 16 GCTGGCCAGACCTCA 1

RESULT 80

US-09-696-791-4136

```
; Sequence 4136, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 4136
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Hairpin ribozyme recognition site for cyclin B1
US-09-696-791-4136
```

```
Query Match          0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 53;
Matches      8; Conservative      6; Mismatches      2; Indels      0; Gaps      0;
```

```
Oy      725 UGCCUGUCCACCAUUAU 740
      1 TGACTGTCTCCATTAT 16
```

```
RESULT 81
US-09-696-791-4366
; Sequence 4366, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 4366
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Hammerhead ribozyme recognition site for cyclin B1
US-09-696-791-4366
```

```
Query Match          0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 53;
Matches      8; Conservative      6; Mismatches      2; Indels      0; Gaps      0;
```

```
Oy      725 UGCCUGUCCACCAUUAU 740
      1 TGACTGTCTCCATTAT 16
```

```
RESULT 82
US-09-856-662-17
; Sequence 17, Application US/09856662
; Patent No. 6790616
; GENERAL INFORMATION:
; APPLICANT: MORIBE, Toyoki et al.
; TITLE OF INVENTION: Method for typing HLA class 1 genes
; FILE REFERENCE: 0032-0261P
; CURRENT APPLICATION NUMBER: US/09/856,662
; CURRENT FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: JP F1998-335151
; PRIOR FILING DATE: 1998-11-26
; NUMBER OF SEQ ID NOS: 130
```

```
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 17
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:DNA probe A368A
US-09-856-662-17
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```
Query Match          0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 75.0%; Pred. No. 53;
Matches     12; Conservative      2; Mismatches      2; Indels      0; Gaps      0;
```

```
Oy      915 GAGGAAGUAGGCCGC 930
      1 GAGGATGTATGCTGC 16
```

```
RESULT 83
US-09-720-435A-114/C
; Sequence 114, Application US/09720435A
; Patent No. 6803187
; GENERAL INFORMATION:
; APPLICANT: Stuyver, Lieven
; TITLE OF INVENTION: Method for detection of drug-selected mutations in the protease
; FILE REFERENCE: 11362.0030.PCUS00 INNS.030
; CURRENT APPLICATION NUMBER: US/09/720,435A
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: PCT/EP99/04317
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: 98870143.9
; PRIOR FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 529
; SOFTWARE: Patentln version 3.2
; SEQ ID NO 114
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Aids-associated retrovirus
US-09-720-435A-114
```

```
Query Match          0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 50.0%; Pred. No. 53;
Matches      8; Conservative      6; Mismatches      2; Indels      0; Gaps      0;
```

```
Oy      685 CCACCAUUAUUUG 700
      16 CCACCTATTATTTTG 1
```

```
RESULT 84
PCT-US94-12947A-15
; Sequence 15, Application PC/TUS9412947A
; GENERAL INFORMATION:
; APPLICANT: The Johns Hopkins University School of Medicine
; TITLE OF INVENTION: NUCLEIC ACID MUTATION DETECTION BY
; NUMBER OF SEQUENCES: 128
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Spensley Horn Jubas & Lubitz
; STREET: 1880 Century Park East, Suite 500
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90067
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/12947A
; FILING DATE: 10-NOV-1994
```

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Ph.D., Lisa A.
REGISTRATION NUMBER: P-38,347
REFERENCE/DOCKET NUMBER: PD-2912
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 455-5100
TELEFAX: (619) 455-5110
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..16
PCT-US94-12947A-15

Query Match 0.7%; Score 12.8; DB 1; Length 16;
Best Local Similarity 75.0%; Pred. No. 53;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 45 CAUCAGCUCUCUCUG 60
DB 1 CACCGACCCCTCTGG 16

RESULT 85
US-08-291-932A-378/c
Sequence 378, Application US/08291932A
Patent No. 5658780
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Draper, Kenneth G.
APPLICANT: McSwigen, James
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: NF-KB
NUMBER OF SEQUENCES: 830
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
CITY: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/291,932A
FILING DATE: August 15, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/157
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600

Two

TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 378:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-291-932A-378

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1177 GAGCAGAGCTGGG 1190
DB 14 GAGCAGAGCTGGG 1

RESULT 86
US-08-311-486C-251
Sequence 251, Application US/08311486C
Patent No. 5811300
GENERAL INFORMATION:
APPLICANT: Sean Sullivan
APPLICANT: Kenneth Draper
APPLICANT: Kevin Kisch
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwigen
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: TNF- α
NUMBER OF SEQUENCES: 1157
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
CITY: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/311,486C
FILING DATE: September 23, 1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/166
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 955-0440
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 251:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

Two

Patent No. 5877021
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSER: Lyon & Lyon
STREET: 613 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2056:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-2056
Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 282 GGUCAACAAGCAGC 295
DB 15 GGTGACGACGAGC 2
RESULT 90
US-08-585-684B-2330/C
Sequence 2330, Application US/08585684B
Patent No. 5877021
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSER: Lyon & Lyon
STREET: 613 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.

ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2330:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-2330
Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 282 GGUCAACAAGCAGC 295
DB 15 GGTGACGACGAGC 2
RESULT 91
US-08-740-821-1
Sequence 1, Application US/08740821
Patent No. 5910583
GENERAL INFORMATION:
APPLICANT: Marks, Jeffrey R.
APPLICANT: Vaughn, James P.
APPLICANT: Iglehart, James D.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Bell, Seltzer, Park & Gibson, P.A.
STREET: Post Office Drawer 34009
CITY: Charlotte
STATE: No. 5910583th Carolina
COUNTRY: USA
ZIP: 28234
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/740,821
FILING DATE: 04-NOV-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 5405-134
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-420-2200
TELEFAX: 919-861-3175
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:

LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OLIGONUCLEOTIDE"
US-08-740-821-1

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 53;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1095 CUCCAGUGGUCUCA 1108
Db 1 CTCGATGGTGTCTCA 14

RESULT 92
US-08-667-939A-11
Sequence 11, Application US/08667939A
Patent No. 5998166
GENERAL INFORMATION:

APPLICANT: LUD, Shun
TITLE OF INVENTION: CD16-11 VARIANTS
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/667,939A
FILING DATE: 24-JUN-1996
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/433,123
FILING DATE: 03-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: LUD-2A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528

INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-667-939A-11

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1712 AGCAGUACGACGAG 1725
Db 2 AGCAGTACGACGAG 15

RESULT 93
US-08-667-939A-22/C
Sequence 22, Application US/08667939A
Patent No. 5998166
GENERAL INFORMATION:

APPLICANT: LUD, Shun
TITLE OF INVENTION: CD16-11 VARIANTS
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/667,939A
FILING DATE: 24-JUN-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/433,123
FILING DATE: 03-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: LUD-2A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-667-939A-22

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1712 AGCAGUACGACGAG 1725
Db 14 AGCAGTACGACGAG 1

RESULT 94
US-08-577-081A-71
Sequence 71, Application US/08577081A
Patent No. 6030775
GENERAL INFORMATION:

APPLICANT: Yang, Soo Young
TITLE OF INVENTION: Methods and Reagents for Typing HLA
NUMBER OF SEQUENCES: 84
CORRESPONDENCE ADDRESS:
ADDRESSEE: Oppedahl & Larson
STREET: 1992 Commerce Street Suite 309
CITY: Yorktown
STATE: NY
COUNTRY: US
ZIP: 10598

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 MB storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/577,081A
FILING DATE: 435
CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Larson, Marina T.
REGISTRATION NUMBER: 32,038
REFERENCE/DOCKET NUMBER: MSK-P-001-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (914) 245-3252
TELEFAX: (914) 962-4330
TELEX:
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 15
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: no
ANTI-SENSE: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: human
FEATURE:
OTHER INFORMATION: hybridization probe 1421K for typing of
US-08-577-081A-71

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1420 CAGATCACCACGCG 1433
DB 1 CAGATCACCACGCG 14

RESULT 95
US-08-908-643C-80/C
Sequence 80, Application US/08908643C
Patent No. 6120995
GENERAL INFORMATION:
APPLICANT: Waldman, Scott A.
Pearlman, Joshua M.
Barber, Michael F.
Schultz, Stephanie
Parkinson, Scott J.
TITLE OF INVENTION: COMPOSITIONS THAT SPECIFICALLY BIND TO
COLORECTAL CANCER CELLS AND METHODS OF
USING THE SAME
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6120995rls LLP
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch disk, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/908,643C
FILING DATE: 07-Aug-1997
CLASSIFICATION: N/A
PRIOR APPLICATION DATA:
APPLICATION NUMBER: <Unknown>
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Mark Deluca
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: TTU-2209

TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 80:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 80:
US-08-908-643C-80

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 57.1%; Pred. No. 53;
Matches 8; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 264 GGAUAUUGUGUCAU 277
DB 14 GGAUAUUGUGUCAU 1

RESULT 96
US-09-071-845-477
Sequence 477, Application US/09071845
Patent No. 6132967
GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwigen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,845
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/292,620
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 477:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-845-477

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1355 CCACUCUACCCUG 1368
DB 1 CCACGCUACCCUG 14

RESULT 97
US-09-071-845-571
Sequence 571, Application US/09071845
Patent No. 6132967
GENERAL INFORMATION:
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Diaper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,845
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/292,620
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 571:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-845-571
Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 53;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1355 CCACUCUACCCUG 1368
DB 1 CCACGCUACCCUG 14

RESULT 98
US-09-038-073-2056/c
Sequence 2056, Application US/09038073
Patent No. 6194150
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038,073
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/585,684
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2056:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-038-073-2056
Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 282 GGUCAACAAGCAGC 295
DB 15 GGTACAGCAGCAGC 2
RESULT 99
US-09-038-073-2330/c
Sequence 2330, Application US/09038073
Patent No. 6194150
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE

TITLE OF INVENTION: INDUCTION OF GRaft TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION NUMBER: US/09/038,073
APPLICATION NUMBER: US/09/038,073
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/585,684
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2330:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-038-073-2330

Query Match 0.7%; Score 12.4; DB 1; Length 15;

Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 282 GGUCAAGCAGCAGC 295
Db 15 GGTGAGCAGCAGC 2

RESULT 100
US-09-081-646-6
Sequence 6, Application US/09081646
Patent No. 6333152
GENERAL INFORMATION:
APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
APPLICANT: Zhou, Wei
TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and
FILE REFERENCE: 01107,74664
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
NUMBER OF SEQ ID NOS: 871
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 15
TYPE: DNA
ORGANISM: Homo sapiens
US-09-081-646-6

Query Match 0.7%; Score 12.4; DB 1; Length 15;

Best Local Similarity 71.4%; Pred. No. 53;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Qy 399 AUGGCCUUGAGGA 412
Db 2 ATGGGCTTAGGGA 15

RESULT 101
US-09-081-646-26/c
Sequence 26, Application US/09081646
Patent No. 6333152
GENERAL INFORMATION:
APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
APPLICANT: Zhou, Wei
TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and
FILE REFERENCE: 01107,74664
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
NUMBER OF SEQ ID NOS: 871
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 26
LENGTH: 15
TYPE: DNA
ORGANISM: Homo sapiens
US-09-081-646-26

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 53;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 602 CUCCUGCAUCCUG 615
Db 14 CTCCTGCATCATG 1

RESULT 102
US-09-081-646-498
Sequence 498, Application US/09081646
Patent No. 6333152
GENERAL INFORMATION:
APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
APPLICANT: Zhou, Wei
TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and
FILE REFERENCE: 01107,74664
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
NUMBER OF SEQ ID NOS: 871
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 498
LENGTH: 15
TYPE: DNA
ORGANISM: Homo sapiens
US-09-081-646-498

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 399 AUGGCCUUGAGGA 412
Db 2 ATGGGCTTAGGGA 15

RESULT 103
US-09-081-646-598/c
; Sequence 598, Application US/09081646
; Patent No. 6333152
; GENERAL INFORMATION:
; APPLICANT: Kinzier, Kenneth
; APPLICANT: Vogelstein, Bert
; APPLICANT: Zhang, Lin
; APPLICANT: Zhou, Wei
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152ml and
; TITLE OF INVENTION: Cancer Cells
; FILE REFERENCE: 01107.74664
; CURRENT APPLICATION NUMBER: US/09/081,646
; CURRENT FILING DATE: 1998-05-20
; EARLIER APPLICATION NUMBER: 60/047,352
; EARLIER FILING DATE: 1997-05-21
; NUMBER OF SEQ ID NOS: 871
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 598
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-081-646-598

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1158 GGACAACTGCGAG 1171
DB 14 GGACAACTGCGATG 1

RESULT 104
US-08-433-123-11
; Sequence 11, Application US/08433123
; Patent No. 6444789
; GENERAL INFORMATION:
; APPLICANT: LUGO, Shun
; TITLE OF INVENTION: CD16-II VARIANTS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEWMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/433,123
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: LUGO=2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA

US-08-433-123-11

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAG 1725
DB 2 AGCAGTAGCAGCAG 15

RESULT 105
US-08-433-123-22/c
; Sequence 22, Application US/08433123
; Patent No. 6444789
; GENERAL INFORMATION:
; APPLICANT: LUGO, Shun
; TITLE OF INVENTION: CD16-II VARIANTS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEWMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/433,123
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: LUGO=2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-433-123-22

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1712 AGCAGUACGACGAG 1725
DB 14 AGCAGTAGCAGCAG 1

RESULT 106
US-10-134-021-19/c
; Sequence 19, Application US/10134021
; Patent No. 6936259
; GENERAL INFORMATION:
; APPLICANT: POTTER, Andrew A.
; APPLICANT: PEREZ-CASAL, Jose
; APPLICANT: FONTAINE, Michael
; APPLICANT: SONG, Ximing
; TITLE OF INVENTION: CAMP FACTOR OF STREPTOCOCCUS UBERIS
; FILE REFERENCE: 9000-0030.20
; CURRENT APPLICATION NUMBER: US/10/134,021

;; CURRENT FILING DATE: 2002-04-26
;; NUMBER OF SEQ ID NOS: 19
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 19
;; LENGTH: 15
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: 556-2
US-10-134-021-19

Query Match 0.7%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 816 GACAGAGCAGAGA 829
DB 15 GACAGAGCAGAGA 2

RESULT 107
US-10-138-674B-7793
; Sequence 7793, Application US/10138674B
; Patent No. 7034009
; GENERAL INFORMATION:
; APPLICANT: Sigma Therapeutics, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Beschedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674B
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20829
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7793
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674B-7793

Query Match 0.7%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 76;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 984 CCAAGACCACAGACA 1000
DB 1 CCAAGCCAGACAGACA 17

RESULT 108
US-08-435-350-108
; Sequence 108, Application US/08435350
; Patent No. 559704
; GENERAL INFORMATION:
; APPLICANT: James D. Thompson
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: TREATMENT OF BREAST CANCER
; NUMBER OF SEQUENCES: 118
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)

;; SOFTWARE: WordPerfect (Version 5.1)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/435,350
;; FILING DATE: 05-MAY-1995
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/936,531
;; FILING DATE: August 26, 1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Warburg, Richard J.
;; REGISTRATION NUMBER: 32,327
;; REFERENCE/DOCKET NUMBER: 197/245
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (213) 489-1600
;; TELEFAX: (213) 955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 108:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 15
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-08-435-350-108

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1680 GUGCCAGUGUGA 1691
DB 3 GUGCCAGUGUGA 14

RESULT 109
US-08-266-414-5
; Sequence 5, Application US/08266414
; Patent No. 561060
; GENERAL INFORMATION:
; APPLICANT: WARD, JERROLD M.
; APPLICANT: FOX, JAMES G.
; APPLICANT: COLLINS, JR., MICHAEL J.
; APPLICANT: GORELICK, PETER L.
; APPLICANT: BENVENISTE, RAOUL B.
; APPLICANT: TULLY, JOSEPH G.
; APPLICANT: GONDA, MATTHEW A.
; TITLE OF INVENTION: HELICOBLASTER HEPATITIS AND RELATED
; TITLE OF INVENTION: METHODS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NEEDLE & ROSENBERG, P.C.
; STREET: Suite 1200, 127 Peachtree Street
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: USA
; ZIP: 30303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/266,414
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Spratt, Gwendolyn D.
; REGISTRATION NUMBER: 36,016
; REFERENCE/DOCKET NUMBER: 1414.090
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 404/688-0880
; TELEFAX: 404/688-9680
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:

LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: oligonucleotide
US-08-266-414-5

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CUGUGCCUCCC 1036
DB 2 CUGUGCCUCCC 13

RESULT 110

US-08-291-932A-31/c
Sequence 31, Application US/08291932A
Patent No. 5658780
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Dan T.
APPLICANT: McSwigen, James
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: NF-KB
NUMBER OF SEQUENCES: 830
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/291,932A
FILING DATE: August 15, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/157
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ. ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-291-932A-31

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 236 CCUGUGGACCA 247
DB 15 CCTTGGTGACCA 4

RESULT 111
US-08-291-932A-220/c
Sequence 220, Application US/08291932A
Patent No. 5658780
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Dan T.
APPLICANT: McSwigen, James
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: NF-KB
NUMBER OF SEQUENCES: 830
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/291,932A
FILING DATE: August 15, 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/157
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ. ID NO: 220:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-291-932A-220

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 236 CCUGUGGACCA 247
DB 15 CCTTGGTGACCA 4

RESULT 112
US-08-334-847-497/c
Sequence 497, Application US/08334847
Patent No. 5693532

GENERAL INFORMATION:
APPLICANT: McSwigen, James
APPLICANT: Draper, Kenneth
APPLICANT: Pavco, Pam
APPLICANT: Woolf, Tod
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING RESPIRATORY
TITLE OF INVENTION: SYNCTIAL VIRUS
NUMBER OF SEQUENCES: 909
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/334,847
FILING DATE: No. 5693532ember 4, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ. ID NO: 497:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-334-847-497

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 61;
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1089 CAUCUACUCCAU 1100
||:|||||:
Db 12 CATCTACTCCAT 1

RESULT 113
US-08-334-847-657
Sequence 657, Application US/08334847
Patent No. 5693532
GENERAL INFORMATION:
APPLICANT: McSwigen, James
APPLICANT: Draper, Kenneth
APPLICANT: Pavco, Pam
APPLICANT: Woolf, Tod
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING RESPIRATORY
TITLE OF INVENTION: SYNCTIAL VIRUS
NUMBER OF SEQUENCES: 909
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California

COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/334,847
FILING DATE: No. 5693532ember 4, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ. ID NO: 657:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-334-847-657

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 41 CAAACUACGACU 52
|||||||
Db 1 CAAACUACGACU 12

RESULT 114
US-08-585-684B-1244/C
Sequence 1244, Application US/08585684B
Patent No. 5877021
GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard

REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1244:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-1244

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 83.3%; Pred. No. 61;
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1649 CAUUCAGAACCA 1660
Db 15 CATTGAGAACCA 4

RESULT 115
US-08-585-684B-1245/C
Sequence 1245, Application US/08585684B
Patent No. 5877021

GENERAL INFORMATION:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwigen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1245:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-585-684B-1245

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 83.3%; Pred. No. 61;

Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 1649 CAUUCAGAACCA 1660
Db 14 CATTGAGAACCA 3

RESULT 116
US-09-191-099-19
Sequence 19, Application US/09191099
Patent No. 6096323
GENERAL INFORMATION:
APPLICANT: Walker, Richard L.
APPLICANT: Read, Deryck H.
APPLICANT: Hird, David W.
APPLICANT: Lefebvre, Rance B.
APPLICANT: Berry, Steven L.
APPLICANT: Cullor, James S.
APPLICANT: Lefter, Hank M.
TITLE OF INVENTION: The Regents of the University of California
TITLE OF INVENTION: Vaccine Against Papillomatous Digital Dermatitis (PDD)
FILE REFERENCE: 023070-081110US
CURRENT APPLICATION NUMBER: US/09/191,099
EARLIER FILING DATE: 1998-11-12
EARLIER APPLICATION NUMBER: US 08/943,571
EARLIER FILING DATE: 1997-10-03
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 15
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:reverse primer
US-09-191-099-19

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1025 CUCGUCGCTCC 1036
Db 1 CTGCTGCTCTCC 12

RESULT 117
US-09-252-806-4/C
Sequence 4, Application US/09252806
Patent No. 6171844
GENERAL INFORMATION:
APPLICANT: NUMATA, Kiochi
APPLICANT: ODA, Yasushi
APPLICANT: MIYATA, Masami
APPLICANT: OKAMURA, Yukio
APPLICANT: KIMURA, Toshiaki
APPLICANT: UCHIDA, Masatoshi
TITLE OF INVENTION: No. 6171844e1 Microorganisms and Method for Environmental
TITLE OF INVENTION: Purification using the Same
FILE REFERENCE: 77670/576
CURRENT APPLICATION NUMBER: US/09/252,806
CURRENT FILING DATE: 1999-02-19
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 15
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
US-09-252-806-4

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;

Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1025 CUGUCGCTCCC 1036
|:|:|:|:|:|:|
Db 15 CTGCTGCTCCC 4

RESULT 118
US-09-038-073-1244/c
; Sequence 1244, Application US/09038073
; Patent No. 6194150
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
; TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
; NUMBER OF SEQUENCES: 2751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/038,073
; FILING DATE:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/585,684
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/078
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1244:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-038-073-1244

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 83.3%; Pred. No. 61;
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1649 CAUUCAGAACCA 1660
|:|:|:|:|:|:|
Db 15 CATTCAGAACCA 4

RESULT 119
US-09-038-073-1245/c
; Sequence 1245, Application US/09038073
; Patent No. 6194150
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.
; APPLICANT: Jarvis, Thale
; APPLICANT: McSwiggen, James
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE

; TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
; TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
; NUMBER OF SEQUENCES: 2751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/038,073
; FILING DATE:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/585,684
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/078
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1245:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-038-073-1245

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 83.3%; Pred. No. 61;
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1649 CAUUCAGAACCA 1660
|:|:|:|:|:|:|
Db 14 CATTCAGAACCA 3

RESULT 120
US-09-142-779-4
; Sequence 4, Application US/09142779B
; Patent No. 6200960
; GENERAL INFORMATION:
; APPLICANT: Khachigian, Levon M.
; TITLE OF INVENTION: Inhibition of Proliferation of Cells
; FILE REFERENCE: 27340200200
; CURRENT APPLICATION NUMBER: US/09/142,779B
; EARLIER APPLICATION NUMBER: PN 8554
; NUMBER OF SEQ ID NOS: 7
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
; US-09-142-779-4

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 83.3%; Pred. No. 61;
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 924 UGCGCCGUGCCA 935
:|||||:|||||
DB 3 TGCGCCCTGCCA 14

RESULT 121

US-08-943-571-13
; Sequence 13, Application US/08943571
; Patent No. 6287575
; GENERAL INFORMATION:
; APPLICANT: Walker, Richard L.
; APPLICANT: Read, Deryck H.
; APPLICANT: Hird, David W.
; APPLICANT: Lefebvre, Rance B.
; APPLICANT: Berry, Steven L.
; APPLICANT: Cullor, James S.
; APPLICANT: Lefler, Hank M.
; TITLE OF INVENTION: Vaccine Against Papillomatous Digital
; TITLE OF INVENTION: Dermatitis (PDD)
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,571
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Parent, Annette S.
; REGISTRATION NUMBER: 42,058
; REFERENCE/DOCKET NUMBER: 023070-081100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..15
; OTHER INFORMATION: /note="reverse primer"
US-08-943-571-13

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1025 CUGCGCCUCCC 1036
:|||||:|||||
DB 1 CTGCTGCTGCC 12

RESULT 122
US-09-711-508-4/C
; Sequence 4, Application US/09711508
; Patent No. 6521444
; GENERAL INFORMATION:
; APPLICANT: NUMATA, Kiuchi
; APPLICANT: ODA, Yaeshi

; APPLICANT: MIYATA, Masami
; APPLICANT: OKAMURA, Yukio
; APPLICANT: KIMURA, Toshiaki
; APPLICANT: UCHIDA, Masatoshi
; TITLE OF INVENTION: No. 6521444el Microorganisms and Method for Environmental
; FILE REFERENCE: 77670/576
; CURRENT APPLICATION NUMBER: US/09/711,508
; CURRENT FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US/09/252,806
; PRIOR FILING DATE: 1999-02-19
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 4
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
US-09-711-508-4

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1025 CUGCGCCUCCC 1036
:|||||:|||||
DB 15 CTGCTGCTGCC 4

RESULT 123

US-10-085-871C-10/C
; Sequence 10, Application US/10085871C
; Patent No. 6716615
; GENERAL INFORMATION:
; APPLICANT: Lee, Fang-Yu
; APPLICANT: Lee, Ming-Liang
; APPLICANT: Anderson, Hong C.
; APPLICANT: Chiu, Schung-Ching
; TITLE OF INVENTION: New Strains of Saccharothrix, Process for Producing Pravastatin U
; FILE REFERENCE: 004135.P005
; CURRENT APPLICATION NUMBER: US/10/085,871C
; CURRENT FILING DATE: 2002-02-27
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentln version 3.1
; SEQ ID NO 10
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer of 166 rDNA of Saccharothrix 44442 and Saccharothrix 45494
US-10-085-871C-10

Query Match 0.7%; Score 12; DB 1; Length 15;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1025 CUGCGCCUCCC 1036
:|||||:|||||
DB 15 CTGCTGCTGCC 4

RESULT 124

US-10-085-871C-11
; Sequence 11, Application US/10085871C
; Patent No. 6716615
; GENERAL INFORMATION:
; APPLICANT: Lee, Fang-Yu
; APPLICANT: Lee, Ming-Liang
; APPLICANT: Anderson, Hong C.
; APPLICANT: Chiu, Schung-Ching
; TITLE OF INVENTION: New Strains of Saccharothrix, Process for Producing Pravastatin U

```

; TITLE OF INVENTION: Strains and Isolation Process of (HMG)-COA Reductase
; FILE REFERENCE: 004135.P005
; CURRENT APPLICATION NUMBER: US/10/085,871C
; CURRENT FILING DATE: 2002-02-27
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 11
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer of 16s rDNA of Saccharothrix 44442 and Saccharothrix 45494
US-10-085-871C-11

Query Match
Best Local Similarity 0.7%; Score 12; DB 1; Length 15;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CUGCUGCCUCC 1036
DB 1 CTGCTGCTCTCC 12

RESULT 125
US-09-775-818-13/C
; Sequence 13, Application US/09775818
; Patent No. 6872525
; GENERAL INFORMATION:
; APPLICANT: Laboratory of Molecular Biophotonics
; TITLE OF INVENTION: Method for selectively separating live cells expressing
; FILE REFERENCE: PP00-0043-00
; CURRENT APPLICATION NUMBER: US/09/775,818
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: JP 2000/028117
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: JP 2000/130793
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 13
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe
US-09-775-818-13

Query Match
Best Local Similarity 0.7%; Score 12; DB 1; Length 15;
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 835 AACUUGUCCAC 846
DB 13 AACTTGTCAC 2

RESULT 126
US-09-648-389A-1
; Sequence 1, Application US/09648389A
; Patent No. 6969704
; GENERAL INFORMATION:
; APPLICANT: Pinsky, David
; APPLICANT: Stern, David
; APPLICANT: Yan, Shi-Fang
; TITLE OF INVENTION: Methods for Suppressing Early Growth Response-1 Protein (Egr-1)
; FILE REFERENCE: 0575/62683
; CURRENT APPLICATION NUMBER: US/09/648,389A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
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; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-648-389A-1

Query Match
Best Local Similarity 0.7%; Score 12; DB 1; Length 15;
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 924 UGCGCGUCCCA 935
DB 3 TGGCGCTGCCA 14

RESULT 127
US-09-341-700A-672/C
; Sequence 672, Application US/09341700A
; Patent No. 6972171
; GENERAL INFORMATION:
; APPLICANT: Schlingensiefen, Karl-Hermann
; APPLICANT: Brysch, Wolfgang
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
; FILE REFERENCE: 10496/P63763USO
; CURRENT APPLICATION NUMBER: US/09/341,700A
; CURRENT FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: PCT/EP98/00497
; PRIOR FILING DATE: 1998-01-30
; PRIOR APPLICATION NUMBER: EP 97 101 531.8
; PRIOR FILING DATE: 1997-01-31
; NUMBER OF SEQ ID NOS: 1764
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 672
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
US-09-341-700A-672

Query Match
Best Local Similarity 0.7%; Score 12; DB 1; Length 15;
Matches 5; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 740 UGACUUNUUAU 751
DB 14 TGACTATTAT 3

RESULT 128
US-09-723-368-5/C
; Sequence 5, Application US/09723368
; Patent No. 6641818
; GENERAL INFORMATION:
; APPLICANT: NORTHWESTERN UNIVERSITY
; APPLICANT: SPEAR, Patricia G.
; APPLICANT: WARNER, Morgyn S.
; APPLICANT: GERAGHTY, Robert G.
; APPLICANT: MARTINEZ, Wanda M.
; APPLICANT: MONTGOMERY, Rebecca I.
; APPLICANT: COHEN, Gary H.
; APPLICANT: EISENBERG, Roselyn J.
; APPLICANT: WHITEBECK, Charles J.
; APPLICANT: KRUMENACHER, Claude
; APPLICANT: UNIVERSITY OF PENNSYLVANIA
; TITLE OF INVENTION: CELLULAR PROTEINS WHICH MEDIATE HERPESVIRUS ENTRY
; FILE REFERENCE: 200290.0050/201
; CURRENT APPLICATION NUMBER: US/09/723,368
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. 60/087,862
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: PCT/US99/12235
; PRIOR FILING DATE: 1999-06-02
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; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Primer PRR2A8
US-09-723-368-5

Query Match 0.7%; Score 11.8; DB 1; Length 20;
Best Local Similarity 53.3%; Pred. No. 1.2e+02;
Matches 8; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1020 UGAGCUGCGGCCUC 1034
:|:|:|:|:|:|:|
Db 16 TGGTCTGCTGCTTC 2

Search completed: June 30, 2006, 13:55:36
Job time : 3 secs

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PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 284; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 21 BP; 1 A; 5 C; 5 G; 2 T; 8 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 94.7%; Pred. No. 1.9e+02;
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1712 AGCAGUACCGAGAGACA 1730
 Db 19 AGCAGTACCAGCAGAGACA 1
 RESULT 604
 AEA02419
 ID AEA02419 standard; RNA; 21 BP.
 XX
 AC AEA02419;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 312.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 XX
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX

PD 19-MAY-2005.
 XX
 PF 20-AUG-2004; 2004WO-US027367.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 11-MAR-2004; 2004US-00798090.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 2004WO-US013456.
 PR 24-MAY-2004; 2004WO-US016390.
 PR 17-AUG-2004; 2004US-00919866.
 XX
 PA (SIRN-) SIRNA THERAPEUTICS INC.
 XX
 PI Richards I, Macswiggen J;
 XX
 DR WPI; 2005-356237/36.
 XX
 PT New short interfering nucleic acid molecule that directs cleavage of a
 PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
 PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
 PT disease.
 XX
 PS Claim 33; SEQ ID NO 312; 184pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
 CC (RNAi). The siNA molecule, compounds, compositions, and methods are
 CC useful for treating or preventing respiratory and pulmonary diseases,
 CC disorders, and/or conditions, including chronic obstructive pulmonary
 CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
 CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
 CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
 XX
 SQ Sequence 21 BP; 7 A; 4 C; 4 G; 2 T; 4 U; 0 Other;
 XX
 Query Match 1.1%; Score 19; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 1.9e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1011 GAACAAACAUGAUGCUGCU 1029
 Db 1 GAACAAACAUGAUGCUGCU 19
 RESULT 605
 AEA02330
 ID AEA02330 standard; RNA; 21 BP.
 XX
 AC AEA02330;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 214.
 XX
 KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
 KW Neuroprotective; Nootropic; Uropathic;
 KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
 KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimer's disease;
 KW mutation disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
 KW siRNA; RNA interference; gene silencing; short interfering RNA.
 OS Synthetic.
 XX
 PN WO2005045040-A2.
 XX
 PD 19-MAY-2005.
 XX

PF 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 214; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACCGACGACGACGUC 1733
DB 1 AGUACCGACGACGACGUC 19
RESULT 606
AEA02338/c
ID AEA02338 standard; RNA; 21 BP.
XX
XX AEA02338;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 222.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX

PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 222; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 2 A; 5 C; 5 G; 2 T; 7 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.9e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1715 AGUACCGACGACGACGUC 1733
DB 19 AGTACCGACGACGACGATC 1
RESULT 607
AEA02343
ID AEA02343 standard; RNA; 21 BP.
XX
XX AEA02343;
XX
XX 28-JUL-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 227.
XX
XX Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
XX Neutroprotective; Nootropic; Uropathic;
XX Chronic obstructive pulmonary disease; asthma; allergic rhinitis;
XX sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
XX micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
XX siRNA; RNA interference; gene silencing; short interfering RNA.
XX
XX Synthetic.
XX
XX WO2005045040-A2.
XX
XX 19-MAY-2005.
XX
XX 20-AUG-2004; 2004WO-US027367.
XX
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX

PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 227; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGAGGACCAAGACCAC 993
DB 1 GCAGAGGACCAAGACCAC 19
AAAGGACCAAGACCAC 19
RESULT 608
AEA02393
ID AEA02393 standard; RNA; 21 BP.
XX
AC AEA02393;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 277.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 277; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1714 CAGUACGACGAGACAGU 1732
DB 1 CAGUACGACGAGACAGU 19
AAUACGACGAGACAGU 19
RESULT 609
AEA02406/c
ID AEA02406 standard; RNA; 21 BP.
XX
AC AEA02406;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 290.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.

PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
PA (SIRN-) SIRNA THERAPEUTICS INC.
XX
PI Richards I, Macswiggen J;
XX WPI; 2005-356237/36.
XX
PT New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
PS Claim 33; SEQ ID NO 277; 184pp; English.
XX
CC The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
SQ Sequence 21 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 0 Other;
XX
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1714 CAGUACGACGAGACAGU 1732
DB 1 CAGUACGACGAGACAGU 19
AAUACGACGAGACAGU 19
RESULT 609
AEA02406/c
ID AEA02406 standard; RNA; 21 BP.
XX
AC AEA02406;
XX
DT 28-JUL-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 siRNA SEQ ID NO 290.
XX
KW Respiratory-Gen.; Antiasthmatic; Antiallergic; Antiinflammatory;
KW Neuroprotective; Nootropic; Uropathic;
KW chronic obstructive pulmonary disease; asthma; allergic rhinitis;
KW sinusitis; inflammation; allergy; cystic fibrosis; alzheimers disease;
KW micturition disorder; cholinergic receptor muscarinic 3; CHRM3; ss;
KW siRNA; RNA interference; gene silencing; short interfering RNA.
XX
OS Synthetic.
XX
PN WO2005045040-A2.
XX
PD 19-MAY-2005.
XX
PF 20-AUG-2004; 2004WO-US027367.
XX
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.

PR 11-MAR-2004; 2004US-00798090.
PR 16-APR-2004; 2004US-00825966.
PR 30-APR-2004; 2004MO-US013456.
PR 24-MAY-2004; 2004MO-US016390.
PR 17-AUG-2004; 2004US-00919866.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
PI Richards I, Macswigen J,
DR WPI; 2005-356237/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of a
PT cholinergic receptor muscarinic 3 RNA, useful for treating or preventing
PT respiratory and pulmonary diseases, e.g. chronic obstructive pulmonary
PT disease.
XX
XX Claim 33; SEQ ID NO 290; 184pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA via RNA interference
CC (RNAi). The siRNA molecule, compounds, compositions, and methods are
CC useful for treating or preventing respiratory and pulmonary diseases,
CC disorders, and/or conditions, including chronic obstructive pulmonary
CC disease, asthma, allergic rhinitis, sinusitis, inflammation, allergies,
CC cystic fibrosis, Alzheimer's disease, and/or urinary incontinence. The
CC present sequence represents a cholinergic receptor muscarinic 3 siRNA.
XX
XX Sequence 21 BP; 6 A; 4 C; 7 G; 2 T; 2 U; 0 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 21;
Best Local Similarity 68.4%; Pred. No. 1.9e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
OY 317 UCCUCUAGCCUGGCCUG 335
 :||||:||||:||||:
DB 19 TCCTCTTAGCGCTGCGCTG 1
RESULT 610
ADW27981
ID ADW27981 standard; RNA; 23 BP.
XX
AC ADW27981;
XX
DT 07-APR-2005 (first entry)
XX
DB Cholinergic receptor muscarinic 3 gene targeted siRNA #278.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
OS
XX
XX Key Location/Qualifiers
FH misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 11-MAR-2002; 2002US-0363124P.

PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGEN J.
XX
XX Richards I, Mcswigen J;
PI
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX disclosure; SEQ ID NO 278; 84pp; English.
PS
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 2 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1715 AGUACGACGACAGACAGUC 1733
 |||||||
DB 2 AGUACGACGACAGACAGUC 20
RESULT 611
ADW27930
ID ADW27930 standard; RNA; 23 BP.
XX
AC ADW27930;
XX
DT 07-APR-2005 (first entry)
XX
DB Cholinergic receptor muscarinic 3 gene targeted siRNA #227.
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
OS
XX
XX Key Location/Qualifiers
FH misc_difference 22..23

RESULT 613
ADM27927
XX ADW27927 standard; RNA; 23 BP.
XX
AC ADW27927;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #224.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 224; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.

SEQ Sequence 23 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 2 Other;
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 21 UACAACCCUGCCUUGUUU 39
DB 2 UACAACCCUGCCUUGUUU 20
RESULT 614
ADM27933
XX ADW27933 standard; RNA; 23 BP.
XX
AC ADW27933;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #230.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
PT Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
PS Disclosure; SEQ ID NO 230; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a

CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 23 BP, 7 A, 5 C, 5 G, 2 T, 2 U, 2 Other;
 Query Match 1.1%; Score 19; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1715 AGUACCGAGAGAGACGUC 1733
 Db 2 AGUACCGAGAGAGACGUC 20
 RESULT 615
 ADM27980 standard; RNA; 23 BP.
 AC ADM27980;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #277.
 XX
 KM gene expression; antihistaminic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.
 KM
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT misc_difference 22..23 /*tag= a
 FT /note= "deoxythymidine nucleotide"
 FT
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.
 PR 20-FEB-2003; 2003US-US005346.
 PR 30-APR-2003; 2003US-0042716P.
 PR 23-MAY-2003; 2003US-0044485P.
 PR 23-OCT-2003; 2003US-0069305P.
 PR 24-NOV-2003; 2003US-00720448.
 PR 14-JAN-2004; 2004US-00757803.
 XX
 PA (RICH/) RICHARDS I.
 PA (MCSW/) MCSWIGEN J.
 XX
 PI Richards I, Mcswigen J;

XX
 DR WPI; 2005-090672/10.
 XX
 PT Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 PS Disclosure; SEQ ID NO 277; 84pp; English.
 XX
 CC The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 SQ Sequence 23 BP, 7 A, 5 C, 5 G, 2 T, 2 U, 2 Other;
 Query Match 1.1%; Score 19; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1714 CAGUACCGAGAGAGACGU 1732
 Db 2 CAGUACCGAGAGAGACGU 20
 RESULT 616
 ADM27932 standard; RNA; 23 BP.
 ID ADM27932
 XX
 AC ADM27932;
 XX
 DT 07-APR-2005 (first entry)
 DE Cholinergic receptor muscarinic 3 gene targeted siRNA #229.
 XX
 KM gene expression; antihistaminic; antiallergic; antiinflammatory; CNS-Gen.;
 KM respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KM nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
 KM cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KM inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KM hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KM incontinence; ss.
 KM
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT misc_difference 22..23 /*tag= a
 FT /note= "deoxythymidine nucleotide"
 FT
 PN US2005014172-A1.
 XX
 PD 20-JAN-2005.
 PF 11-MAR-2004; 2004US-00798090.
 XX
 PR 20-FEB-2002; 2002US-0358580P.
 PR 11-MAR-2002; 2002US-0363124P.
 PR 20-MAY-2002; 2002WO-US015876.
 PR 06-JUN-2002; 2002US-0386782P.
 PR 29-AUG-2002; 2002US-0406784P.
 PR 05-SEP-2002; 2002US-0408378P.
 PR 09-SEP-2002; 2002US-0409293P.
 PR 15-JAN-2003; 2003US-0440129P.
 PR 20-FEB-2003; 2003WO-US005028.

PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 223; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 2 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1714 CAGUACGACGACGACG 1732
DB 2 CAGUACGACGACGACG 20
RESULT 617
ADM27964
ID ADM27964 standard; RNA; 23 BP.
XX
AC ADM27964;
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #261.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
XX
XX Key Location/Qualifiers
FH misc_difference 22..23
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX

PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002US-0515876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX Richards I, Mcswiggen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 261; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 2 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1714 CAGUACGACGACGACG 1732
DB 2 CAGUACGACGACGACG 20
RESULT 618
ADM27975
ID ADM27975 standard; RNA; 23 BP.
XX
AC ADM27975;
XX
DT 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #272.
DE
XX
XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW neurotropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX

```

OS Synthetic.
XX Key Location/Qualifiers
FH misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
PN US2005014172-A1.
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 272; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 2 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 23;
XX Best Local Similarity 100.0%; Pred.No.2.4e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 21 UACACCCUGCCUUGUUU 39
XX 2 UACACCCUGCCUUGUUU 20
XX
XX RESULT 619
XX ADW27959
XX ID ADW27959 standard; RNA; 23 BP.
XX AC ADW27959;
XX DT 07-APR-2005 (first entry)

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XX Cholinergic receptor muscarinic 3 gene targeted siRNA #256.
DE gene expression; antiasthmatic; anti-allergic; antiinflammatory; CNS-Gen.;
XX respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
XX nootropic; utopathic; short interfering RNA; RNA interference; siRNA;
XX cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
XX hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
XX incontinence; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
FH misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
PN US2005014172-A1.
XX 20-JAN-2005.
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
XX (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
XX acid molecule that directs cleavage of cholinergic receptor muscarinic 3
XX RNA through RNA interference, useful for treating asthma.
XX
XX Disclosure; SEQ ID NO 256; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
XX cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
XX where each strand of (I) has 19-23 nucleotides, and does not require the
XX presence of nucleotides having a 2-hydroxy group for mediating RNA
XX interference. (I) is useful for treating diseases e.g., asthma, allergic
XX rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
XX vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
XX Alzheimer's disease or urinary incontinence. (I) has increased resistance
XX towards nuclease. Double stranded short interfering nucleic acid molecule
XX was produced by solid phase oligonucleotide synthesis method. This
XX sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 2 Other;
XX
XX Query Match 1.1%; Score 19; DB 1; Length 23;
XX Best Local Similarity 100.0%; Pred.No.2.4e+02;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 21 UACACCCUGCCUUGUUU 39

```

Db 2 UACAACCCGCGCCUUGUUU 20
|||||
RESULT 620
ADW27978
ID ADW27978 standard; RNA; 23 BP.
XX
XX ADW27978;
XX
XX
DT 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #275.
XX
XX gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
XX disclosure; SEQ ID NO 275; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance

CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
XX
SQ Sequence 23 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 2 Other;
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGATGACCAAGCCAC 993
Db 2 GCAGATGACCAAGCCAC 20
|||||
RESULT 621
ADW27946
ID ADW27946 standard; RNA; 23 BP.
XX
XX ADW27946;
XX
XX 07-APR-2005 (first entry)
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #243.
XX
XX
KW gene expression; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; utropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
KW incontinence; ss.
XX
XX Synthetic.
OS
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
XX Richards I, Mcswiggen J;
XX
XX WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX

PS Disclosure; SEQ ID NO 243; 84pp; English.
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 23 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 2 Other;
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGAGGACCAAGACCAC 993
DB 2 GCAGAGGACCAAGACCAC 20
RESULT 622
ADM27962
ID ADM27962 standard; RNA; 23 BP.
XX
AC ADM27962;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #259.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22.23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX

PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
XX
PI Richards I, Mcswiggen J;
XX
DR WPI; 2005-090672/10.
XX
XX Novel chemically synthesized double stranded short interfering nucleic
PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
PT RNA through RNA interference, useful for treating asthma.
XX
XX
PS Disclosure; SEQ ID NO 259; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
CC where each strand of (I) has 19-23 nucleotides, and does not require the
CC presence of nucleotides having a 2-hydroxy group for mediating RNA
CC interference. (I) is useful for treating diseases e.g., asthma, allergic
CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
CC towards nuclease. Double stranded short interfering nucleic acid molecule
CC was produced by solid phase oligonucleotide synthesis method. This
CC sequence represents an example of a siRNA molecule of the invention.
SQ Sequence 23 BP; 7 A; 6 C; 5 G; 2 T; 1 U; 2 Other;
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 975 GCAGAGGACCAAGACCAC 993
DB 2 GCAGAGGACCAAGACCAC 20
RESULT 623
ADM27948
ID ADM27948 standard; RNA; 23 BP.
XX
AC ADM27948;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #245.
XX
KW gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-Gen.;
KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
KW nootropic; uropathic; short interfering RNA; RNA interference; siRNA;
KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
KW hypertension; emphysema; irritable bowel syndrome; Alzheimer disease;
KW incontinence; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22.23
FT /*tag= a
FT /note= "deoxythymidine nucleotide"
XX
PN US2005014172-A1.
XX
PD 20-JAN-2005.
XX
PF 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 20-MAY-2002; 2002WO-US015876.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
XX

PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-0042716P.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
DR WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
PS Disclosure; SEQ ID NO 245; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 2 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1714 CAGUACGACGAGACGAGU 1732
DB 2 CAGUACGACGAGACGAGU 20
RESULT 624
ADW27997
ID ADW27997 standard; RNA; 23 BP.
XX
XX
XX ADW27997;
XX
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #294.
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uteropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hypertension; emphysema; irritable bowel syndrome; Alzheimers disease; incontinence; ss.
XX
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
FH misc_difference 22..23
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX

PN US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-0042716P.
XX 23-MAY-2003; 2003US-00444853.
XX 23-OCT-2003; 2003US-00693059.
XX 24-NOV-2003; 2003US-00720448.
XX 14-JAN-2004; 2004US-00757803.
PA (RICH/) RICHARDS I.
PA (MCSW/) MCSWIGGEN J.
PI Richards I, Mcswigen J;
DR WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.
PS Disclosure; SEQ ID NO 303; 84pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.
XX
XX Sequence 23 BP; 7 A; 4 C; 4 G; 2 T; 4 U; 2 Other;
SQ
Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1011 GAACAACAAUGAUGGUGCU 1029
DB 2 GAACAACAAUGAUGGUGCU 20
RESULT 625
ADW27943
ID ADW27943 standard; RNA; 23 BP.
XX
XX
XX ADW27943;
XX
XX
XX 07-APR-2005 (first entry)
XX
XX Cholinergic receptor muscarinic 3 gene targeted siRNA #240.
XX gene expression; antiasthmatic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uteropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
XX

KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 OS Synthetic.
 XX
 XX
 XX Key Location/Qualifiers
 FH misc_difference 22..23
 FT /*tag= a
 FT /note= "deoxythymidine nucleotide"
 XX
 XX US2005014172-A1.
 XX
 XX 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 XX 11-MAR-2002; 2002US-0363124P.
 XX 20-MAY-2002; 2002WO-US015876.
 XX 06-JUN-2002; 2002US-0386782P.
 XX 29-AUG-2002; 2002US-0406784P.
 XX 05-SEP-2002; 2002US-0408378P.
 XX 09-SEP-2002; 2002US-0409293P.
 XX 15-JAN-2003; 2003US-0440129P.
 XX 20-FEB-2003; 2003WO-US005346.
 XX 30-APR-2003; 2003US-00427160.
 XX 23-MAY-2003; 2003US-00444853.
 XX 23-OCT-2003; 2003US-00693059.
 XX 24-NOV-2003; 2003US-00720448.
 XX 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswiggen J;
 XX
 XX WPI; 2005-090672/10.
 XX
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX
 XX Disclosure; SEQ ID NO 240; 84bp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 XX
 XX Sequence 23 BP; 3 A; 6 C; 2 G; 2 T; 8 U; 2 Other;
 XX
 XX Query Match 1.1%; Score 19; DB 1; Length 23;
 XX Best Local Similarity 100.0%; Pred. No. 2.4e+02;
 XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX 21 UACACCCUGCCGCUUUGUU 39
 XX |||||
 XX 2 UACAACCCUGCCGCUUUGUU 20
 XX
 XX RESULT 626
 XX ADM27965
 XX ID ADM27965 standard; RNA; 23 BP.

XX
 AC ADM27965;
 XX
 XX 07-APR-2005 (first entry)
 XX
 XX Cholinergic receptor muscarinic 3 gene targeted siRNA #262.
 XX
 XX gene expression; antiasthmatic; antiallergic; antiinflammatory; CNS-gen.;
 KW respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective;
 KW motropic; utropathic; short interfering RNA; RNA interference; siRNA;
 KW cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis;
 KW inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction;
 KW hypertension; emphysema; irritable bowel syndrome; Alzheimers disease;
 KW incontinence; ss.
 XX
 XX
 XX Synthetic.
 OS
 XX
 XX Key Location/Qualifiers
 FH misc_difference 22..23
 FT /*tag= a
 FT /note= "deoxythymidine nucleotide"
 XX
 XX US2005014172-A1.
 XX
 XX 20-JAN-2005.
 XX
 XX 11-MAR-2004; 2004US-00798090.
 XX
 XX 20-FEB-2002; 2002US-0358580P.
 XX 11-MAR-2002; 2002US-0363124P.
 XX 20-MAY-2002; 2002WO-US015876.
 XX 06-JUN-2002; 2002US-0386782P.
 XX 29-AUG-2002; 2002US-0406784P.
 XX 05-SEP-2002; 2002US-0408378P.
 XX 09-SEP-2002; 2002US-0409293P.
 XX 15-JAN-2003; 2003US-0440129P.
 XX 20-FEB-2003; 2003WO-US005346.
 XX 30-APR-2003; 2003US-00427160.
 XX 23-MAY-2003; 2003US-00444853.
 XX 23-OCT-2003; 2003US-00693059.
 XX 24-NOV-2003; 2003US-00720448.
 XX 14-JAN-2004; 2004US-00757803.
 XX
 XX (RICH/) RICHARDS I.
 XX (MCSW/) MCSWIGGEN J.
 XX
 XX Richards I, Mcswiggen J;
 XX
 XX WPI; 2005-090672/10.
 XX
 XX
 XX Novel chemically synthesized double stranded short interfering nucleic
 PT acid molecule that directs cleavage of cholinergic receptor muscarinic 3
 PT RNA through RNA interference, useful for treating asthma.
 XX
 XX
 XX Disclosure; SEQ ID NO 262; 84bp; English.
 XX
 XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a
 CC cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference,
 CC where each strand of (I) has 19-23 nucleotides, and does not require the
 CC presence of nucleotides having a 2-hydroxy group for mediating RNA
 CC interference. (I) is useful for treating diseases e.g., asthma, allergic
 CC rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary
 CC vasoconstriction or hypertension, emphysema, irritable bowel syndrome,
 CC Alzheimer's disease or urinary incontinence. (I) has increased resistance
 CC towards nuclease. Double stranded short interfering nucleic acid molecule
 CC was produced by solid phase oligonucleotide synthesis method. This
 CC sequence represents an example of a siRNA molecule of the invention.
 XX
 XX
 XX Sequence 23 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 2 Other;
 XX
 XX Query Match 1.1%; Score 19; DB 1; Length 23;
 XX

PT Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.

PS Disclosure; SEQ ID NO 246; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.

CC Sequence 23 BP; 7 A; 5 C; 5 G; 2 T; 2 U; 2 Other;

SQ

Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02; Mismatches 0; Gaps 0;
Matches 19; Conservative 0; Indels 0;

QY 1715 AGUACGACGACGACGACGUC 1733
|||
2 AGUACGACGACGACGACGUC 20

Db

RESULT 629
ADW27994
ID ADW27994 standard; RNA; 23 BP.
XX
AC ADW27994;
XX
DT 07-APR-2005 (first entry)
XX
DE Cholinergic receptor muscarinic 3 gene targeted siRNA #291.
XX
KW gene expression; antiallergic; antiinflammatory; CNS-Gen.; respiratory-gen.; hypotensive; gastrointestinal-gen.; neuroprotective; nootropic; uteropathic; short interfering RNA; RNA interference; siRNA; cholinergic receptor muscarinic 3; asthma; allergic rhinitis; sinusitis; inflammation; allergy; cystic fibrosis; pulmonary vasoconstriction; hypertension; emphysema; irritable bowel syndrome; Alzheimer's disease; incontinence; ss.
KW
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_difference 22..23
FT /tag= a
FT /note= "deoxythymidine nucleotide"
XX
XX
XX US2005014172-A1.
XX
XX 20-JAN-2005.
XX
XX
XX 11-MAR-2004; 2004US-00798090.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX 11-MAR-2002; 2002US-0363124P.
XX 20-MAY-2002; 2002WO-US015876.
XX 06-JUN-2002; 2002US-0386782P.
XX 29-AUG-2002; 2002US-0406784P.
XX 05-SEP-2002; 2002US-0408378P.
XX 09-SEP-2002; 2002US-0409293P.
XX 15-JAN-2003; 2003US-0440129P.
XX 20-FEB-2003; 2003WO-US005028.
XX 20-FEB-2003; 2003WO-US005346.
XX 30-APR-2003; 2003US-00427160.
XX 23-MAY-2003; 2003US-00444853.

PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 14-JAN-2004; 2004US-00757803.
XX
XX
XX (RICH/) RICHARDS I.
XX PA (MCSW/) MCSWIGEN J.
XX PI
XX Richards I, Mcswigen J;
XX WPI; 2005-090672/10.
XX
XX
XX Novel chemically synthesized double stranded short interfering nucleic acid molecule that directs cleavage of cholinergic receptor muscarinic 3 RNA through RNA interference, useful for treating asthma.

PS Disclosure; SEQ ID NO 300; 84pp; English.

XX The invention relates to a chemically synthesized double stranded short interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a cholinergic receptor muscarinic 3 (CHRM3) RNA through RNA interference, where each strand of (I) has 19-23 nucleotides, and does not require the presence of nucleotides having a 2-hydroxy group for mediating RNA interference. (I) is useful for treating diseases e.g., asthma, allergic rhinitis, sinusitis, inflammation, allergy, cystic fibrosis, pulmonary vasoconstriction or hypertension, emphysema, irritable bowel syndrome, Alzheimer's disease or urinary incontinence. (I) has increased resistance towards nuclease. Double stranded short interfering nucleic acid molecule was produced by solid phase oligonucleotide synthesis method. This sequence represents an example of a siRNA molecule of the invention.

CC Sequence 23 BP; 7 A; 4 C; 4 G; 2 T; 4 U; 2 Other;

SQ

Query Match 1.1%; Score 19; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.4e+02; Mismatches 0; Gaps 0;
Matches 19; Conservative 0; Indels 0;

QY 1011 GAACAAACAUGAUGCUGCU 1029
|||
2 GAACAAACAUGAUGCUGCU 20

Db

RESULT 630
AAI72996
ID AAI72996 standard; DNA; 20 BP.
XX
XX AAI72996;
AC
XX 09-SEP-2002 (first entry)
XX
XX M3 Muscarinic receptor sense primer.
DE
XX
XX PCR; primer; mouse; M3 muscarinic receptor; intracellular loop; mutant; appetite; weight control; obesity; ss.
KW
XX
XX Mus musculus.
OS
XX
XX WO200246421-A2.
XX
XX 13-JUN-2002.
XX
XX 26-OCT-2001; 2001WO-US051110.
XX 30-OCT-2000; 2000US-0244414P.
XX
XX (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
XX Wess J, Yamada M;
XX WPI; 2002-471893/50.
XX
XX Non-human animal, e.g. mouse, with abnormal expression of the muscarinic acid M3 receptor, useful for screening compounds having an effect on appetite and weight control, in particularly compounds which can be used

PT to treat obesity.

XX
PS Example 1; Page 28; 52pp; English.

CC The sequences given in AA172996-97 are primers which were used to amplify
CC a portion of the mouse M3 muscarinic receptor corresponding to the third
CC intracellular loop. The amplified sequence was used as a probe in the
CC isolation of the full length M3 muscarinic receptor genomic clone from a
CC 129SV/J mouse genomic library. This sequence was then used in the
CC generation of M3 receptor mutant mice with abnormal expression of the
CC muscarinic acid M3 receptor. Mice with abnormal expression of the
CC muscarinic acid M3 receptor are useful for screening compounds having an
CC effect on appetite and weight control, in particularly compounds which
CC can be used to treat obesity

XX
SQ Sequence 20 BP; 5 A; 6 C; 3 T; 0 U; 0 Other;

Query Match 1.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 2.1e+02;
Matches 16; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 941 GGUUCACCAACCAAGACGCG 960
DB 1 GGTTCCACCAACCAAGACGCG 20

RESULT 631

AE77801
ID AE77801 standard; DNA; 20 BP.

AC AE77801;
XX
DT 09-FEB-2006 (first entry)

DE Human dopamine receptor D2 (DRD2) DNA oligonucleotide SEQ ID NO:1422.
XX
XX
KM Diagnosis; therapeutic; neurological disease; psychiatric disorder;
KM neuropsychologic disorder; dopamine receptor D2; DRD2; ss.

OS Homo sapiens.
XX
PN WO2005118843-A1.
XX
PD 15-DEC-2005.

PF 01-JUN-2005; 2005WO-AU000775.
XX
PR 01-JUN-2004; 2004AU-00902919.
XX
PA (UNIV) UNIV QUEENSLAND TECHNOLOGY.
XX
PI Morris CP, Van Daal A, Swagell CD, Lawford BR, Young RM;
XX
DR WPI; 2006-047555/05.

PT Identifying genetic profile associated with a neurological, psychiatric,
PT or psychological condition, comprises: screening individuals for a
PT polymorphism in a genetic locus comprising the dopamine receptor D2
PT (DRD2) gene.

XX
PS Claim 31; SEQ ID NO 1422; 634pp; English.

CC The invention relates to a method of identifying a genetic profile
CC associated with a neurological, psychiatric or psychological condition,
CC phenotype or state including a sub-threshold neurological, psychiatric or
CC psychological condition, phenotype or state in an individual, comprising
CC screening individuals for a polymorphism in a genetic locus comprising
CC the dopamine receptor D2 (DRD2) gene. The invention also relates to a
CC genetic mutation providing a genetic marker for a neurological,
CC psychiatric, or psychological condition, state or phenotype in an
CC individual, where the presence of a 957C polymorphism is indicative of a
CC predisposition to developing a neurological, psychiatric or psychological
CC condition, phenotype or state. The compositions and methods are useful

CC for identifying a genetic profile associated with a neurological,
CC psychiatric or psychological condition. The method enables clinicians to
CC make a genetic-based diagnosis of a neurological, psychiatric or
CC psychological condition and can thereby implement treatment or
CC preventative or symptom-ameliorating protocols to reduce the adverse
CC consequences of the condition. This sequence represents a human dopamine
CC receptor D2 (DRD2) DNA oligonucleotide used in the scope of the
CC invention.

XX
SQ Sequence 20 BP; 5 A; 9 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 1.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 2.1e+02;
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1604 UCACACGACCGGAAACCC 1623
DB 1 TCACACGACCGCGGAAACCC 20

RESULT 632

ADG77919/C
ID ADG77919 standard; DNA; 21 BP.

AC ADG77919;
XX
DT 11-MAR-2004 (first entry)

DE Canine disease marker-related PCR primer 763.
XX
XX
KM genetic disease; genetic trait; dog; carrier of recessive disease;
KM copper toxicosis; CT; canine genome map; breed-specific profile;
KM DNA fingerprint; dog identification; PCR; primer; ss.

OS Canis familiaris.
XX
PN WO9731011-A1.
XX
PD 28-AUG-1997.

PF 18-FEB-1997; 97WO-US002396.
XX
PR 22-FEB-1996; 96US-0012060P.
XX
PA (UNMI) UNIV MICHIGAN
PA (UNMS) UNIV MICHIGAN STATE.
XX
PI Brewer GJ, Venta PJ, Yuzbasiyan-Gurkan V;
XX
DR WPI; 1997-435082/40.

PT New oligonucleotide primers for diagnosis of genetic diseases and traits
PT in dogs - amplify specific regions of the genome containing
PT microsatellite repeats, especially for diagnosing copper toxicosis and
PT carriers.

XX
PS Claim 1; Page 18; 40pp; English.

CC This invention relates to novel oligonucleotide PCR primers which may be
CC used to identify markers associated with genetic diseases and traits in
CC dogs, in particular to diagnose genetic diseases that are not
CC phenotypically visible and to identify carriers of recessive diseases. A
CC specific application is diagnosis of copper toxicosis (CT). The invention
CC can also be used to create a genetic map of the canine genome; to
CC generate breed-specific profiles; to establish paternity and to identify
CC dogs from DNA fingerprints. The method provides rapid analysis of the
CC target sequences from only a small sample of DNA. Diagnosis can be done
CC at any time in the dog's life. The present sequence is that of a PCR
CC primer of the invention.

XX
SQ Sequence 21 BP; 0 A; 8 C; 2 G; 11 T; 0 U; 0 Other;

Query Match 1.0%; Score 18.4; DB 1; Length 21;

Best Local Similarity 95.0%; Pred. No. 2.3e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 815 GGACAGAGCGACAGACGAA 834
DB 20 GGACAGAGCGACAGAAAGAA 1

RESULT 633

ADM97793/C
ID ADM97793 standard; DNA; 18 BP.

AC ADM97793;

XX 05-MAY-2005 (first entry)

DE Reverse primer for RT-PCR of M3R cDNA, seq id 2.

XX Sjoegrens syndrome; diagnosis;

KM membrane-associated anti-type-3 muscarinic acetylcholine receptor; M3R;

XX RT-PCR; primer; ss.

OS Homo sapiens.

PN US2005042689-A1.

XX 24-FEB-2005.

PD 18-JUN-2004; 2004US-00871137.

XX 18-JUN-2003; 2003US-0479545P.

PA (PECK/) PECK A B.

PA (CHAS/) CHA S R.

PA (RAMI/) RAMIYA V K.

PA (GAOJ/) GAO J.

PA (HUMP/) HUMPHREYS-BAHER D E.

PA (HUMP/) HUMPHREYS-BEHER M G.

XX Peck AB, Cha SR, Ramiya VK, Gao J, Humphreys-Baher DE;

PI Humphreys-Baher MG;

XX WPI; 2005-180808/19.

DR Diagnosing Sjogren's syndrome in subject, involves obtaining biological

PT sample from subject and analyzing sample of presence of antibody that

PT specifically binds membrane-associated anti-type-3 muscarinic

PT acetylcholine receptor.

XX Example 1; SEQ ID NO 2; 23pp; English.

PS The invention relates to a method for diagnosing (M1) Sjogren's syndrome

CC in a subject. The method involves obtaining a biological sample from the

CC subject, analyzing the sample for the presence of an antibody that

CC specifically binds a membrane-associated anti-type-3 muscarinic

CC acetylcholine receptor (M3R), where the presence of the antibody in the

CC sample indicates that the subject has Sjogren's syndrome. The method is

CC useful for diagnosing Sjogren's syndrome in a subject by detecting anti-

CC M3R antibodies in a biological sample, where the biological sample is a

CC fluid chosen from blood, blood serum, saliva, tears, mucus and ascites

CC fluid. The current sequence represents a primer for the RT-PCR of M3R

CC cDNA.

XX Sequence 18 BP; 2 A; 6 C; 7 G; 3 T; 0 U; 0 Other;

SEQ Query Match 1.0%; Score 18; DB 1; Length 18;

Best Local Similarity 88.9%; Pred. No. 1.8e+02;

-Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1753 GCACCCGAGCAGCCCTTG 1770

DB 18 GCACCCGAGCAGCCCTTG 1

RESULT 634

AA597754
ID AA597754 standard; DNA; 20 BP.

AC AA597754;

XX 12-MAR-2002 (first entry)

DE Murine SACL gene-specific oligonucleotide PCR primer #321.

XX Human; mouse; SACL; carbohydrate; sweetener; ethanol; alcoholism; ss;

KM obesity; diabetes; transgenic embryo; body tissue; body fluid; pancreas;

KM blood; tongue; PCR primer; anorectic; antidiabetic; gene therapy;

XX protein replacement therapy.

XX Mus sp.

OS WO200183749-A2.

PN 25-APR-2001; 2001WO-US013387.

XX 28-APR-2000; 2000US-0200794P.

PR 28-JUL-2000; 2000US-0221419P.

PR 10-NOV-2000; 2000US-0247443P.

XX (WARN) WARNER LAMBERT CO.

PA (MONE-) MONELL CHEM SENSES CENT.

XX Bachmanov AA, Beauchamp GK, Chatterjee A, De Jong PJ, Li S, Li X;

PI Ohmen JD, Reed DR, Rose D, Tordoff MG;

XX WPI; 2002-075162/10.

DR Novel isolated polypeptide comprising variant form of mouse or human SACL

PT polypeptide, and is associated with altered preference for carbohydrates

PT or other sweeteners, useful for preventing obesity, diabetes, alcoholism.

XX Claim 14; Page 86; 23pp; English.

PS The invention relates to an isolated polypeptide, comprising a variant

CC form of mouse or human SACL polypeptide. The variant form is associated

CC with altered preference for carbohydrates, other sweeteners or ethanol.

CC The polypeptide and its associated DNA sequence can be produced by

CC recombinant techniques and is useful for preventing obesity, diabetes or

CC alcoholism associated with SACL expression. The sequences are useful in

CC screening for drugs and sweeteners. Recombinant cell lines and transgenic

CC embryos may be used in screening for and identifying agents that induce

CC or repress function of SACL. Predisposition to diabetes, obesity or

CC alcoholism can be ascertained by testing any fluid or tissue of a human

CC (such as blood, pancreas or tongue) for sequence variations of the SACL

CC gene. A sequence variation of the SACL locus may indicate a

CC predisposition to diabetes, obesity and/or alcoholism and may provide a

CC diagnostic mark. The polynucleotide can be detected in a biological

CC sample by contacting the DNA with a probe to form a hybridization complex

CC which is then detected. The sequences represent cDNA encoding human and

CC mouse SACL polypeptides and PCR primers specific for the SACL genes

XX Sequence 20 BP; 5 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

SEQ Query Match 1.0%; Score 18; DB 1; Length 20;

Best Local Similarity 83.3%; Pred. No. 2.3e+02;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1335 CUCAGUGGUAAGAGCAC 1352

DB 2 CTCAGTGGGTAAAGACAC 19

RESULT 635

ADM16094

ID ADM16094 strand; DNA; 20 BP.
XX
AC ADM16094;
XX
DT 15-JUL-2004 (first entry)
XX
DE Murine SACL DNA PCR primer #321.
XX
XX Mouse; SACL; PCR; ss; carbohydrate; sweetener; ethanol; obesity;
KM diabetes; alcoholism; antidiabetic; alcohol; anorectic; antialcoholic;
KW primer.
XX
XX Mus musculus.
OS
XX US2004081964-A1.
XX
XX 29-APR-2004.
XX
XX 25-OCT-2002; 2002US-00280183.
XX
XX 25-OCT-2002; 2002US-00280183.
XX
XX 25-OCT-2002; 2002US-00280183.
XX
XX (BACH/) BACHMANOV A A.
XX (BEAV/) BEAUCHAMP G K.
XX (LISS/) LI S.
XX (LIXX/) LI X.
XX (REED/) REED D R.
XX (TORD/) TORDOFF M G.
XX (ROSS/) ROSS D A.
XX (OHMA/) OHMAN J D.
XX (CHAT/) CHATTERJEE A.
XX (DJON/) DE JONG P J.
XX
XX Bachmanov AA, Beauchamp GK, Li S, Li X, Reed DR, Tordoff MG;
PI Ross DA, Ohman JD, Chatterjee A, De Jong PJ;
XX
XX MPI; 2004-340133/31.
XX
XX New isolated polynucleotides for sensing carbohydrates, other sweeteners,
PT or ethanol, useful for screening drugs for inhibition or restoration of
PT gene function as antidiabetic, antioesity or antialcohol consumption
PT therapies.
XX
XX Example 12; SEQ ID NO 364; 148bp; English.
XX
XX The invention relates to SACL polypeptides and the polynucleotides
CC encoding them. The polynucleotides contain a variation associated with
CC sensing carbohydrates, other sweeteners or ethanol. The invention also
CC relates to a method for analysing a biomolecule in a biological sample,
CC comprising altering SACL activity in the sample and measuring the
CC activity, a method for analysing a polynucleotide in a biological sample,
CC comprising contacting a polynucleotide in a biological sample with a
CC probe where the probe hybridises to a SACL polynucleotide to form a
CC hybridisation complex and detecting the hybridisation complex, a method
CC of identifying susceptibility to obesity or diabetes comprising comparing
CC the nucleotide sequence of the suspected SACL allele with a wild type
CC nucleotide sequence, where the difference between the suspected allele
CC and the wild-type sequence identifies a sequence variation of the SACL
CC nucleotide sequence, and a method of treating or preventing obesity,
CC diabetes or alcoholism associated with expression of SACL, comprising
CC administering to a subject a pharmaceutical composition and a transgenic
CC animal that carries an altered SACL allele. The methods and compositions
CC of the invention are useful for screening drugs for inhibition or
CC restoration of gene function as antidiabetic, antioesity or antialcohol
CC consumption therapies and for identifying sweeteners and alcohols. This
CC sequence represents a PCR primer used to amplify murine SACL DNA of the
XX invention.
XX
XX Sequence 20 BP; 5 A; 5 C; 7 G; 3 T; 0 U; 0 Other;
SQ
Query Match 1.0%; Score 18; DB 1; Length 20;
Best Local Similarity 83.3%; Pred. NO. 2.3e+02;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1335 CTCACGCGGUAAGAGCAC 1352
Db 2 CTCACGCGGUAAGAGCAC 19
RESULT 636
AAC88007/C
ID AAC88007 strand; DNA; 22 BP.
XX
AC AAC88007;
XX
XX 07-MAR-2001 (first entry)
XX
XX Human CLASP probe/primer R4.
DE
XX
XX CLASP-1; CLASP-2; transmembrane protein; immune response; inflammatory;
KM cadherin-like asymmetry protein; autoimmune disease; immunosuppressive;
KM immunomodulatory; antiinflammatory; antiarthritic; cytostatic;
KM hypotensive; antirheumatic; antianaemic; haemostatic; neuroprotective;
KM hypersensitivity; transplantation rejection response; immunodeficiency;
KM proliferation; differentiation; inflammatory response; arthritis;
KM inflammatory bowel disease; haematopoietic cell; blood protein disorder;
KM anaemia; thrombocytopaenia; multiple sclerosis; rheumatoid arthritis;
KM endometiosis; pregnancy induced hypertension; probe; primer; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200061747-A2.
XX
XX 19-OCT-2000.
XX
XX 13-APR-2000; 2000WO-US010158.
XX
XX 14-APR-1999; 99US-0129171P.
XX
XX 14-MAY-1999; 99US-0134114P.
XX
XX 14-MAY-1999; 99US-0134117P.
XX
XX 14-MAY-1999; 99US-0134118P.
XX
XX 21-OCT-1999; 99US-0160860P.
XX
XX 29-OCT-1999; 99US-0162498P.
XX
XX 13-DEC-1999; 99US-0170453P.
XX
XX 14-JAN-2000; 2000US-0176195P.
XX
XX 14-FEB-2000; 2000US-0182296P.
XX
XX (ARBO-) ARBOR VITA CORP.
XX
XX Lu PS;
XX
XX MPI; 2000-619230/59.
XX
XX Isolated cadherin-like asymmetry protein-2 polynucleotide and polypeptide
PT used to diagnose, treat and prevent autoimmune diseases and inflammatory
PT responses.
XX
XX
XX Disclosure; Page 40; 286pp; English.
XX
XX The present invention describes cadherin-like asymmetry protein-2 (CLASP-
XX 2). CLASP-2 can have immunosuppressive, immunomodulatory,
XX antiinflammatory, antiarthritic, cytostatic, hypotensive, antirheumatic,
XX antianaemic, haemostatic and neuroprotective activities. CLASP-2 can be
XX used to inhibit an immune response in a subject by interfering with the
XX ability of a CLASP-2 protein to bind to another T cell or B cell. An
XX immune response in a subject may also be inhibited by administering an
XX antibody which specifically binds to CLASP-2. CLASP-2 polynucleotides,
XX proteins and antibodies can be used to prevent or treat a CLASP-2
XX mediated disease, such as an autoimmune disease caused or exacerbated by
XX increased activity of Th1 cells. They can also be used to treat
XX hypersensitivities, prevent transplantation rejection responses and
XX augment immune responsiveness in immunodeficiency states, inhibit
XX proliferation and differentiation of cells involved in an inflammatory
XX response e.g, arthritis, inflammatory bowel disease and increase
XX differentiation and proliferation of haematopoietic cells e.g. to treat
XX anaemia, thrombocytopaenia and other blood protein disorders. Disorders

CC treated by disrupting CLASP-2 function include multiple sclerosis,
 CC rheumatoid arthritis, endometriosis and pregnancy induced hypertension.
 CC The present sequence represents a human CLASP probe/primer, given in the
 CC present invention
 CC
 CC Sequence 22 BP, 1 A; 12 C; 5 G; 4 T; 0 U; 0 Other;
 CC
 CC Query Match 1.0%; Score 17.8; DB 1; Length 22;
 CC Best Local Similarity 85.7%; Pred. No. 3e+02;
 CC Matches 18; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 CC
 CC 1174 CCTGAGAGAGAGCGCGGAG 1194
 CC ||:|||||
 CC 22 CCTGAGAGAGAGCGCGGAGG 2
 CC
 CC RESULT 637
 CC ABK84929/c
 CC ID ABK84929 standard; DNA; 22 BP.
 CC
 CC AC ABK84929;
 CC
 CC DT 13-AUG-2002 (first entry)
 CC
 CC DE Cadherin-like asymmetry protein (CLASP) primer #8.
 CC
 CC XX Human; autoimmune disease; hematopoietic disorder; Digorge syndrome;
 CC XX blood protein disorder; agammaglobulinemia; dysgammaglobulinemia;
 CC XX ataxia telangiectasia; common variable immunodeficiency; lymphopenia;
 CC XX thrombocytopenia; haemoglobinuria; Addison's disease; Grave's disease;
 CC XX haemolytic anaemia; multiple sclerosis; rheumatoid arthritis; lupus;
 CC XX endometriosis; autoimmune thyroiditis; anaphylaxis; hypersensitivity;
 CC XX autoimmune pulmonary inflammation; organ rejection; inflammation; CLASP;
 CC XX PCR; primer; ss.
 CC
 CC OS Homo sapiens.
 CC
 CC XX WO20023117-A2.
 CC
 CC XX 18-APR-2002.
 CC
 CC PF 15-OCT-2001; 2001WO-US032202.
 CC
 CC PR 13-OCT-2000; 2000US-00687837.
 CC
 CC PA (ARBO-) ARBOR VITA CORP.
 CC (GARM/) GARMAN J D.
 CC (CAND/) CANDIA A F.
 CC
 CC PI Lu PS;
 CC
 CC DR MPI; 2002-416861/44.
 CC
 CC PT New human cadherin-like asymmetry protein(s) (CLASP)-2 for modulating an
 CC immune response, and for treating multiple sclerosis, rheumatoid
 CC arthritis, endometriosis, lupus, autoimmune thyroiditis, septic shock,
 CC and sepsis.
 CC
 CC PS Disclosure; Page 39; 245pp; English.
 CC
 CC XX The invention relates to an isolated polypeptide (I) comprising an amino
 CC acid sequence that has 90 % sequence identity to one of the human
 CC cadherin-like asymmetry protein(s) (CLASP)-2 (hCLASP-2a, 2B, 2C, 2B)
 CC sequences (PS). (I) is useful for identifying a compound or agent that
 CC binds CLASP-2 polypeptide. An antibody (II) to (I) is useful for
 CC detecting a CLASP-2 polypeptide in a sample. (II) is useful for
 CC inhibiting a immune response in a subject. A pharmaceutical composition
 CC comprising a nucleic acid encoding (I), or (II) is useful for preventing
 CC or treating a CLASP-2 mediated disease e.g. an autoimmune disease, where
 CC the autoimmune disease is caused or exacerbated by increased activity of
 CC TH1 cells. CLASP-2 polynucleotides are useful as probes or primers for
 CC detection or inhibition of CLASP-2 expression (e.g., antisense or
 CC ribozyme-mediated inhibition), for gene knockout, etc. The CLASP-2

CC polynucleotides can express CLASP-2 polypeptides, produce anti- CLASP-
 CC antibodies or are used as therapeutic polypeptides. The CLASP-2
 CC polynucleotide or fragments can be used in diagnostics (e.g., as probes
 CC for CLASP-2 expression), as a lymphocyte marker and for therapeutic
 CC purposes. CLASP-2 polynucleotides can construct transgenic and knockout
 CC animals, e.g., for screening of CLASP-2 agonists and antagonists. CLASP-2
 CC polynucleotides can screen for CLASP-2 agonists and antagonists. CLASP-2
 CC polypeptides or polynucleotides can treat deficiencies or disorders of
 CC the immune system, by activating or inhibiting the activation,
 CC differentiation of immune cells and can treat or detect deficiencies or
 CC disorders of haematopoietic cells. CLASP-2 polypeptides or
 CC polynucleotides can increase differentiation and proliferation of
 CC haematopoietic cells, including the pluripotent stem cells to treat those
 CC disorders associated with a decrease in certain (or many) types of
 CC haematopoietic cells e.g., immunologic deficiency syndromes including
 CC blood protein disorders (e.g., agammaglobulinemia,
 CC dysgammaglobulinemia, ataxia telangiectasia, common variable
 CC immunodeficiency, Digorge syndrome, lymphopenia, thrombocytopenia, or
 CC haemoglobinuria). CLASP-2 polynucleotides or polypeptides can treat or
 CC detect autoimmune diseases, e.g., Addison's disease, haemolytic anaemia,
 CC endometriosis, autoimmune thyroiditis, and autoimmune pulmonary
 CC inflammation. CLASP-2 can be used to treat anaphylaxis or
 CC hypersensitivity to an antigenic molecules, organ rejection or graft-
 CC versus-host disease (GVHD) and inflammation. ABK84922-ABK85018 represent
 CC cadherin-like asymmetry protein (CLASP) coding sequences and PCR primers
 CC of the invention
 CC
 CC XX Sequence 22 BP, 1 A; 12 C; 5 G; 4 T; 0 U; 0 Other;
 CC
 CC Query Match 1.0%; Score 17.8; DB 1; Length 22;
 CC Best Local Similarity 85.7%; Pred. No. 3e+02;
 CC Matches 18; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 CC
 CC 1174 CCTGAGAGAGAGCGCGGAG 1194
 CC ||:|||||
 CC 22 CCTGAGAGAGAGCGCGGAGG 2
 CC
 CC RESULT 638
 CC ABQ94025
 CC ID ABQ94025 standard; DNA; 22 BP.
 CC
 CC AC ABQ94025;
 CC
 CC XX 21-OCT-2002 (first entry)
 CC
 CC DT NOV11 reverse PCR primer.
 CC
 CC DE Human; NOV; cytostatic; Cardiant; Antiinflammatory; Immunosuppressive;
 CC XX Antiallergic; Haemostatic; Anti-HIV; Antidiabetic; Anorectic;
 CC XX Antischismatic; Nephrotropic; Hepatotropic; Neuroprotective; Nocotropic;
 CC XX Antibacterial; Vitricide; Antiparasitic; Relaxant; Anticonvulsant;
 CC XX Gene Therapy; NOV; cancer; heart disease; inflammation;
 CC XX autoimmune disorder; allergy; blood disorder; AIDS; diabetes; obesity;
 CC XX asthma; Iga nephropathy; cirrhosis; arthritis; Alzheimer's disease;
 CC XX infection; stroke; muscular dystrophy; epilepsy; wasting disorder; PCR;
 CC XX primer; ss.
 CC
 CC OS Homo sapiens.
 CC
 CC XX WO200255704-A2.
 CC
 CC PD 18-JUL-2002.
 CC
 CC XX 09-JAN-2002; 2002WO-US000554.
 CC
 CC PF 09-JAN-2001; 2001US-0260417P.
 CC
 CC PR 10-JAN-2001; 2001US-0260831P.
 CC
 CC PR 28-FEB-2001; 2001US-0272338P.
 CC
 CC PR 09-MAR-2001; 2001US-0274876P.
 CC
 CC PR 18-APR-2001; 2001US-0284704P.
 CC
 CC XX

BA (CURA-) CURAGEN CORP.
 XX Padigaru M, Li L, Zehrhusen BD, Casman SJ, Shenoy S, Spytek KA;
 PI Zhong M, Gangoli EA, Burgess CE, Patuturajan M, Vernet CM;
 PI Taylor S, Tchernov VT, Miller CE, Guo X, Boldog FL, Grosse WM;
 PI Alsbrook JP, Gerlach V, Edinger S, Rothenberg ME, Ellerman K;
 PI MacDougall J, Mayankar U, Millet I, Peyman J, Smithson G;
 PI Gunter E, Stone DJ;
 DR WPI; 2002-590674/63.
 XX NOVX polypeptides and encoding polymucleotides, useful for preventing or
 PT treating NOVX-associated disorders e.g. cancer, inflammation, or
 PT Alzheimer's disease, and in chromosome mapping, tissue typing or
 PT pharmacogenomics.
 XX Example 3; Page 300; 358pp; English.
 XX The present invention relates to coding sequences for NOV proteins
 CC (ABN85378-ABN85403 and ABB98401-ABB98424). The NOV proteins and coding
 CC sequences are useful for treating or preventing NOV-associated disorders
 CC or in the manufacture of a medication for treating the disorders, such as
 CC cancer, heart disease, inflammation, autoimmune disorders, allergies,
 CC blood disorders, AIDS, diabetes, obesity, asthma, IGA nephropathy,
 CC cirrhosis, arthritis, Alzheimer's disease, infections (e.g. bacterial,
 CC viral, parasitic), stroke, muscular dystrophy, epilepsy, and other
 CC wasting disorders associated with chronic diseases. The present sequence
 CC is a PCR primer for a NOV coding sequence, which was used in an example
 CC from the invention
 XX SQ Sequence 22 BP; 7 A; 5 C; 3 G; 7 T; 0 U; 0 Other;
 Query Match 1.0%; Score 17.8; DB 1; Length 22;
 Best Local Similarity 61.9%; Pred. No. 3e+02;
 Matches 13; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
 QY 1558 UGCNAUCCCAAAACCTUUNUG 1578
 :||:|||||||:|||||
 Db 2 TACATGACCAAAACCTTTGG 22
 RESULT 639
 AEE77800
 ID AEE77800 standard; DNA; 20 BP.
 XX AEE77800;
 AC 09-FEB-2006 (first entry)
 DT
 XX Human dopamine receptor D2 (DRD2) DNA oligonucleotide SEQ ID NO:1421.
 DE
 XX Diagnosis; therapeutic; neurological disease; psychiatric disorder;
 KW neuropsychologic disorder; dopamine receptor D2; DRD2; ss.
 XX
 XX Homo sapiens.
 OS
 XX WO2005118843-A1.
 PN
 XX 15-DEC-2005.
 PD
 XX 01-JUN-2005; 2005WO-AU000775.
 PF
 XX 01-JUN-2004; 2004AU-00902919.
 PR
 XX (UYOU-) UNIV QUEENSLAND TECHNOLOGY.
 PA
 XX Morris CP, Van Daal A, Swagell CD, Lawford BR, Young RM;
 PI WPI; 2006-047555/05.
 DR
 XX Identifying genetic profile associated with a neurological, psychiatric,
 PT or psychological condition, comprises screening individuals for a
 PT polymorphism in a genetic locus comprising the dopamine receptor D2

PT (DRD2) gene.
 XX Claim 31; SEQ ID NO 1421; 634pp; English.
 XX The invention relates to a method of identifying a genetic profile
 CC associated with a neurological, psychiatric or psychological condition,
 CC phenotype or state including a sub-threshold neurological, psychiatric or
 CC psychological condition, phenotype or state in an individual, comprising
 CC screening individuals for a polymorphism in a genetic locus comprising
 CC the dopamine receptor D2 (DRD2) gene. The invention also relates to a
 CC genetic mutation providing a genetic marker for a neurological,
 CC psychiatric, or psychological condition, state or phenotype in an
 CC individual, where the presence of a 957C polymorphism is indicative of a
 CC predisposition to developing a neurological, psychiatric or psychological
 CC condition, phenotype or state. The compositions and methods are useful
 CC for identifying a genetic profile associated with a neurological,
 CC psychiatric or psychological condition. The method enables clinicians to
 CC make a genetic-based diagnosis of a neurological, psychiatric or
 CC psychological condition and can thereby implement treatment or
 CC preventative or symptom-ameliorating protocols to reduce the adverse
 CC consequences of the condition. This sequence represents a human dopamine
 CC receptor D2 (DRD2) DNA oligonucleotide used in the scope of the
 CC invention.
 XX SQ Sequence 20 BP; 5 A; 8 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 1.0%; Score 17.4; DB 1; Length 20;
 Best Local Similarity 84.2%; Pred. No. 2.7e+02;
 Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 QY 1604 UCAACGACCGUGAACCC 1622
 :|||||:|||||
 Db 2 TCAACGACCGCGTAACCC 20
 RESULT 640
 AEE77802
 ID AEE77802 standard; DNA; 20 BP.
 XX AEE77802;
 AC 09-FEB-2006 (first entry)
 DT
 XX Human dopamine receptor D2 (DRD2) DNA oligonucleotide SEQ ID NO:1422.
 DE
 XX Diagnosis; therapeutic; neurological disease; psychiatric disorder;
 KW neuropsychologic disorder; dopamine receptor D2; DRD2; ss.
 XX
 XX Homo sapiens.
 OS
 XX WO2005118843-A1.
 PN
 XX 15-DEC-2005.
 PD
 XX 01-JUN-2005; 2005WO-AU000775.
 PF
 XX 01-JUN-2004; 2004AU-00902919.
 PR
 XX (UYOU-) UNIV QUEENSLAND TECHNOLOGY.
 PA
 XX Morris CP, Van Daal A, Swagell CD, Lawford BR, Young RM;
 PI WPI; 2006-047555/05.
 DR
 XX Identifying genetic profile associated with a neurological, psychiatric,
 PT or psychological condition, comprises screening individuals for a
 PT polymorphism in a genetic locus comprising the dopamine receptor D2
 PT (DRD2) gene.
 XX Claim 31; SEQ ID NO 1423; 634pp; English.
 PS
 XX The invention relates to a method of identifying a genetic profile
 CC associated with a neurological, psychiatric or psychological condition,

CC phenotype or state including a sub-threshold neurological, psychiatric or
CC psychological condition, phenotype or state in an individual, comprising
CC screening individuals for a polymorphism in a genetic locus comprising
CC the dopamine receptor D2 (DRD2) gene. The invention also relates to a
CC genetic mutation providing a genetic marker for a neurological,
CC psychiatric, or psychological condition, state or phenotype in an
CC individual, where the presence of a 957C polymorphism is indicative of a
CC predisposition to developing a neurological, psychiatric or psychological
CC condition, phenotype or state. The compositions and methods are useful
CC for identifying a genetic profile associated with a neurological,
CC psychiatric or psychological condition. The method enables clinicians to
CC make a genetic-based diagnosis of a neurological, psychiatric or
CC psychological condition and can thereby implement treatment or
CC preventative or symptom-ameliorating protocols to reduce the adverse
CC consequences of the condition. This sequence represents a human dopamine
CC receptor D2 (DRD2) DNA oligonucleotide used in the scope of the
CC invention.
CC
SQ Sequence 20 BP; 6 A; 9 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 1.0%; Score 17.4; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 2.7e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1605 CAACAGCACCGUGAACCC 1623
DB 1 CAACAGCGCGGTGAACCC 19
RESULT 641
ID AEE87549/C
ID AEE87549 standard; DNA; 20 BP.
XX
AC AEE87549;
XX
DT 23-FEB-2006 (first entry)
XX
DE Human gene 7 amplifying PCR primer 2.
XX
KM SNP detection; diagnosis; gene 7; PCR; primer: 88.
XX
OS Homo sapiens.
XX
PN US2005287549-A1.
XX
PD 29-DEC-2005.
XX
PF 25-JAN-2005; 2005US-00041456.
XX
PR 29-JUN-2004; 2004JP-00191781.
XX
PA (HITA) HITACHI LTD.
XX
PI Nagai K, Okano K, Noda H, Matsunaga H, Taniguchi K, Yazawa Y;
PI Kajiyama T;
XX
DR WPI; 2006-065742/07.
PT Genetic testing for detecting genetic polymorphisms, by allowing nucleic
PT acid sample having an anchor sequence at its 5' end to hybridize to a
PT support having a probe containing a sequence that is complementary to the
PT target sequence.
XX
PS Example 1; SEQ ID NO 14; 19pp; English.
XX
CC The present invention provides a method of genetic testing for detecting
CC genetic polymorphisms. The method involves hybridizing a nucleic acid sample
CC having an anchor sequence at its 5' end to hybridize to a support having,
CC immobilized on its surface, a probe containing a sequence that is
CC complementary to the target sequence; extending the complementary strand
CC from the probe utilizing the nucleic acid sample as a template;
CC dissociating and removing the nucleic acid sample from the extended probe
CC ; extending a complementary strand using the extended probe as a template

CC and a primer having a sequence identical to the anchor sequence and
CC detecting pyrophosphoric acid generated via the primer extension based on
CC bioluminescence. The present sequence is the human gene 7 amplifying PCR
CC primer. This sequence is used in the method of genetic testing for
CC detecting genetic polymorphisms.
CC
SQ Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;
Query Match 1.0%; Score 17.4; DB 1; Length 20;
Best Local Similarity 73.7%; Pred. No. 2.7e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 299 AGACGCGUACAACUACU 317
DB 19 AGACGCTACCACTACTT 1
RESULT 642
ID ADU29901
ID ADU29901 standard; DNA; 21 BP.
XX
AC ADU29901;
XX
DT 27-JAN-2005 (first entry)
XX
DE Knock-down target sequence #3239.
XX
KM da; RNA production; protein production; drug development;
XX knock-down target.
XX
OS Unidentified.
XX
PN MO2004094636-A1.
XX
PD 04-NOV-2004.
XX
PF 24-APR-2003; 2003WO-BP004362.
XX
PR 24-APR-2003; 2003WO-BP004362.
XX
PA (GALA-) GALAPAGOS GENOMICS NV.
PA (VSCR/) VAN DER SCHUREN J.
XX
PI Arts GJF, Lambrecht MJY, Djokic K, Clasen RJ, Masic B;
PI Griffioen S, Berge CTL;
XX
DR WPI; 2004-775940/76.
XX
PT New knockdown sequences, useful in lowering the amount of RNA and/or
PT protein production in cells used in drug development process.
XX
PS Claim 11; SEQ ID NO 3315; 402pp; English.
XX
CC The invention relates to a polynucleotide comprising an RNA sequence. The
CC polynucleotides, vector, libraries, and method are useful in lowering the
CC amount of RNA and/or protein production in cells used in drug development
CC process. The present sequence represents a knock-down target sequence.
XX
SQ Sequence 21 BP; 7 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 1.0%; Score 17.4; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 3e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1707 CAACGACGACGACGACG 1725
DB 2 CAACGACGAGTTCAGCAG 20
RESULT 643
ID AAA36048/C
ID AAA36048 standard; DNA; 17 BP.
XX

AC AAA36048;
 XX
 XX 26-JUL-2000 (first entry)
 XX
 DE Human genomic SNP allele specific oligonucleotide SEQ ID NO:105.
 XX
 XX Human, single nucleotide polymorphism; SNP; genotyping; DNA analysis;
 KW allele specific oligonucleotide; ASO; reduced complexity genome; RCG;
 KW genomic classification; identification; DNA fingerprinting;
 KW tumour characterisation; hybridisation; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200018960-A2.
 XX
 PD 06-APR-2000.
 XX
 PF 24-SEP-1999; 99WO-US022283.
 XX
 PR 25-SEP-1998; 98US-0101757P.
 XX
 PA (MASI) MASSACHUSETTS INST TECHNOLOGY.
 XX
 PI Landers JE, Jordan B, Houseman DE, Charest A;
 XX
 DR WPI; 2000-293181/25.
 XX
 PT Detection of single nucleotide polymorphisms in genomes by preparation
 PT and analysis of reduced complexity genomes, useful for genotyping,
 PT fingerprinting and determining allele frequency of SNPs.
 XX
 PS Disclosure; Page 56; 11pp; English.
 XX
 CC A method has been developed for detecting the presence or absence of a
 CC single nucleotide polymorphism (SNP) allele in a genomic sample. The
 CC method comprises preparing a reduced complexity genome (RCG) from the
 CC genomic sample and analysing the RCG for the presence or absence of a SNP
 CC allele. The method can be used to characterise a tumour, to generate a
 CC genomic pattern for an individual genome or to generate a genomic
 CC classification code for a genome. The method can be used to assess
 CC whether a subject is at risk for developing a disease or to identify a
 CC set of SNP alleles associated with a disease. The method can also be used
 CC to perform linkage analysis. AAA35944 to AAA35947 represent sequences
 CC used in the exemplification of the present invention. AAA35948 to
 CC AAA36632 represent nucleotide sequences containing SNPs
 CC
 SQ Sequence 17 BP; 6 A; 2 C; 3 G; 6 T; 0 U; 0 Other;
 Query Match 1.0%; Score 17; DB 1; Length 17;
 Best Local Similarity 64.7%; Pred. No. 2.2e+02;
 Matches 11; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 Oy 1567 AAAACUUUGAUAUCU 1583
 Db 17 AAAACCTTTGGAATCT 1
 RESULT 644
 ABS97720/C
 ID ABS97720 standard; DNA; 18 BP.
 XX
 AC ABS97720;
 XX
 DE 23-DEC-2002 (first entry)
 XX
 XX Human kelleikrin 2 (KLK2) gene PCR primer #5.
 DE
 KW Human; ss; primer; cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1; PCR;
 KW cytochrome P450 A2; CYP4501A2; cytochrome P450 O2E; CYP45002E1; LTP;
 KW adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MKP3; NR112;
 KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
 KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
 KW epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;

KW glutathione-S-transferase 12; GST12; histamine-N-methyl transferase;
 KW HNMT; Kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
 KW NADPH quinone oxidoreductase 2; NQO2; sulfoxtransferase thermolabile; STM;
 KW UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
 KW UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
 KW multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
 KW multidrug resistance associated protein 3; cancer; prostate;
 KW acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;
 KW altered drug metabolism; cardiovascular function; colorectal tumour;
 KW central nervous system; pulmonary; immunological.
 XX
 OS Homo sapiens.
 XX
 PN WO200257410-A2.
 XX
 PD 25-JUL-2002.
 XX
 PF 28-NOV-2001; 2001WO-US044838.
 XX
 PR 28-NOV-2000; 2000US-00724389.
 XX
 PA (DNAS-) DNA SCI LAB INC.
 XX
 PI Guida M, Hall J;
 XX
 DR WPI; 2002-698522/75.
 XX
 PT Isolated nucleic acid molecules having polymorphisms in known human genes
 PT e.g. cytochrome P450 and cathepsin S useful as genetic linkage markers
 PT for locating, identifying and characterizing the genes responsible for
 PT disorder-related traits.
 XX
 PS Example 14; Page 125; 714pp; English.
 XX
 CC This invention relates to the sequence of an isolated nucleic acid
 CC molecule comprising at least one base variation from that of a known
 CC human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2),
 CC cytochrome P450 O2E1 (CYP45002E1), adrenergic receptor beta1 (ADBR1),
 CC aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
 CC (ARNT), cathepsin S (CTSS), cyclooxgenase 2 (COX2), diazepam binding
 CC inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating
 CC protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl
 CC transferase (HNMT), (Kallikrein 2) KLK2, nicotinamide-N-methyl
 CC transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),
 CC sulfoxtransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
 CC (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
 CC transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1
 CC (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
 CC (MRP3), orphan nuclear receptor (NR112), or acetylcholine muscarinic
 CC receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
 CC The polymorphisms in the human genes cited in the invention are useful as
 CC genetic linkage markers for locating and characterising the genes that
 CC are responsible for specific traits within the genome and eventually
 CC identifying the genes responsible for a variety of disorder-related
 CC traits as a result of their e.g., overexpression, constitutive
 CC expression, mutation or underexpression, which may be used in diagnosing
 CC and/or treating the disorders. The nucleic acid molecules comprising the
 CC polymorphic sequences contained in CYP4501A1, CYP4501A2, CYP4502E1,
 CC ARNT, EPHX2, GST12, NNMT, NQO2, NR112, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
 CC MDR1 and/or MDR3 are useful for screening individuals for altered drug
 CC metabolism. The polymorphic sequences contained in CYP4501A1, CYP4501A2,
 CC AHR, MDR1 and/or MDR3 may also be used to screen individuals for
 CC susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are
 CC used to screen for altered cardiovascular function, in COX2 for altered
 CC susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
 CC nervous system function, in FLAP and HNMT for altered pulmonary,
 CC immunological or haematological function, in KLK2 for altered serine
 CC protease activity in the prostate, in LTF for altered immunological or
 CC haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
 CC peripheral nervous system function. The present sequence represents a PCR
 CC primer used to amplify the sequences of the invention
 XX
 SQ Sequence 18 BP; 0 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 1.0%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 819 AGAGGACAGACAGAAA 835
 |||||
 DB 18 AGAGGACAGACAGAAA 2

RESULT 645
 AAA6616/C
 ID AAA6616 standard; DNA; 20 BP.

AC AAA6616;

DT 09-OCT-2000 (first entry)

DE Dog genomic marker oligonucleotide sequence SEQ ID NO:478.

XX Dog; genome; genomic marker; radiation hybrid map; identification;
 KW chromosome location; gene marker; polymorphic microsatellite marker;
 KM phenotype; behaviour; pedigree; ss.

XX Canis familiaris.

XX WO200029615-A2.

XX 25-MAY-2000.

XX 15-NOV-1999; 99WO-IB001907.

XX 13-NOV-1998; 98US-0108193P.

XX (CNRS) CNRS CENT NAT RECH SCI.

XX Galibert F, Andre C;

XX WPI; 2000-387821/33.

PT New radiation hybrid map of the dog, Canine familiaris, genome, useful
 PT for e.g. identifying genes implicated in phenotypic and behavioral traits
 PT or in genetic diseases and for studying dog pedigrees.

PS Claim 1; Page 73; 87pp; English.

XX The present invention describes a radiation hybrid map of the dog (Canine
 CC familiaris) genome comprising the genome location of a marker selected
 CC from AAA66139 to AAA66942. The radiation hybrid map is useful for
 CC identifying and localising dog genes, since it covers approximately 80 %
 CC of the dog genome and provides a dense map integrating different types
 CC (i.e. Type I and Type II) of markers. The map and the dog genome markers
 CC (or complementary sequences) are especially useful to identify genes
 CC responsible for phenotypic and behavioural traits in dogs, to identify
 CC morbid genes, to analyse diseases and identify implicated genes in such
 CC diseases and their alleles, and to study dog pedigrees. They may also be
 CC useful for isolating corresponding human gene sequences e.g. genes
 CC involved in genetic diseases

XX Sequence 20 BP; 8 A; 5 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.9%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 55.0%; Pred. No. 3.2e+02;
 Matches 11; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 571 CUGGCTUGGUCACUCCUU 590
 |||||
 DB 20 CTGGCATGGGTATCTCTT 1

RESULT 646
 AAA66540/C
 ID AAA66540 standard; DNA; 20 BP.

XX AAA66540;
 AC
 DT 09-OCT-2000 (first entry)

DE Dog genomic marker oligonucleotide sequence SEQ ID NO:402.

XX Dog; genome; genomic marker; radiation hybrid map; identification;
 KW chromosome location; gene marker; polymorphic microsatellite marker;
 KM phenotype; behaviour; pedigree; ss.

XX Canis familiaris.

XX WO200029615-A2.

XX 25-MAY-2000.

XX 15-NOV-1999; 99WO-IB001907.

XX 13-NOV-1998; 98US-0108193P.

XX (CNRS) CNRS CENT NAT RECH SCI.

XX Galibert F, Andre C;

XX WPI; 2000-387821/33.

PT New radiation hybrid map of the dog, Canine familiaris, genome, useful
 PT for e.g. identifying genes implicated in phenotypic and behavioral traits
 PT or in genetic diseases and for studying dog pedigrees.

PS Claim 1; Page 70; 87pp; English.

XX The present invention describes a radiation hybrid map of the dog (Canine
 CC familiaris) genome comprising the genome location of a marker selected
 CC from AAA66139 to AAA66942. The radiation hybrid map is useful for
 CC identifying and localising dog genes, since it covers approximately 80 %
 CC of the dog genome and provides a dense map integrating different types
 CC (i.e. Type I and Type II) of markers. The map and the dog genome markers
 CC (or complementary sequences) are especially useful to identify genes
 CC responsible for phenotypic and behavioural traits in dogs, to identify
 CC morbid genes, to analyse diseases and identify implicated genes in such
 CC diseases and their alleles, and to study dog pedigrees. They may also be
 CC useful for isolating corresponding human gene sequences e.g. genes
 CC involved in genetic diseases

XX Sequence 20 BP; 8 A; 5 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.9%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 55.0%; Pred. No. 3.2e+02;
 Matches 11; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 571 CUGGCTUGGUCACUCCUU 590
 |||||
 DB 20 CTGGCATGGGTATCTCTT 1

RESULT 647

AB281123
 ID AB281123 standard; DNA; 20 BP.

XX AB281123;

DT 10-MAY-2003 (first entry)

DE Dual specific phosphatase 9 phosphorothioate oligonucleotide SEQ:21.

XX Human; Dual specific phosphatase 9; antisense modulation; inhibitor;
 KW antiinflammatory; cytostatic; antibacterial; antisense therapy;
 KW hyperproliferative disorder; developmental disorder; infection;
 KW inflammatory disorder; inflammation; tumour formation; phosphorothioate;
 KW 2'-O-methoxyethyl; 2'-MOE; ss.

```
OS Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX FT /tag= a
XX FT /mod_base= OTHER
XX FT /note= "phosphorothioate linkages"
XX modified_base 1..5
XX FT /tag= b
XX FT /mod_base= OTHER
XX FT /note= "optional 2'-O-methoxyethyl (2'-MOE) gapmer"
XX modified_base 16..20
XX FT /tag= c
XX FT /mod_base= OTHER
XX FT /note= "optional 2'-O-methoxyethyl (2'-MOE) gapmer"
XX WO2003012123-A2.
XX
XX 13-FEB-2003.
XX
XX 31-JUL-2002; 2002WO-US024309.
XX
XX 01-AUG-2001; 2001US-00922146.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Cowser LM, Montia BP;
XX
XX MPI; 2003-248184/24.
XX
XX New antisense oligonucleotides targeted to nucleic acids encoding Dual
XX specific phosphatase 9, useful for treating diseases associated with Dual
XX specific phosphatase 9, e.g. cancer, and for diagnostic and research
XX applications.
XX
XX Claim 3; Page 74; 94pp; English.
XX
XX The present invention describes a compound (1) that is 8-50 nucleobases
XX in length targeted to a nucleic acid molecule encoding Dual specific
XX phosphatase 9, and which specifically hybridises with and inhibits the
XX expression of Dual specific phosphatase 9, or which specifically
XX hybridises with at least an 8-nucleobase portion of an active site on a
XX nucleic acid molecule encoding Dual specific phosphatase 9. (1) has
XX antiinflammatory, cyostatic and antibacterial activities, and can be
XX used in antisense therapy. The antisense compounds are useful for
XX modulating the expression of Dual specific phosphatase 9 and for treating
XX diseases or conditions associated with expression of Dual specific
XX phosphatase 9, e.g. hyperproliferative disorders, developmental disorders
XX or inflammatory disorders. The antisense compounds are also useful for
XX diagnostics, therapeutics, prophylaxis, e.g. to prevent or delay
XX infection, inflammation or tumour formation, as research reagents and
XX kits, and in distinguishing between functions of various members of a
XX biological pathway. The present sequence represents a human Dual specific
XX phosphatase 9 antisense phosphorothioate oligonucleotide, which is used
XX in an example from the present invention
XX
XX Sequence 20 BP; 4 A; 9 C; 5 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 16.8; DB 1; Length 20;
XX Best Local Similarity 80.0%; Pred. No. 3.2e+02;
XX Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
XX
XX 1464 AGCGGCCGAGCCUCCAGUG 1483
XX DB 1 AGCGGCCGAGCCCTCCATG 20
XX
XX RESULT 648
XX ADP10779/c
XX ID ADP10779 standard; DNA; 20 BP.
XX
XX AC ADP10779;
```

```
XX
XX 12-AUG-2004 (first entry)
XX
XX Set 1 left PCR primer for marker probe #124.
XX
XX transplant rejection; immune system; rheumatoid arthritis; lupus;
XX inflammatory bowel disease; multiple sclerosis; HIV; AIDS; ss; primer.
XX
XX Homo sapiens.
XX
XX WO2004042346-A2.
XX
XX 21-MAY-2004.
XX
XX 24-APR-2003; 2003WO-US012946.
XX
XX 24-APR-2002; 2002US-00131831.
XX
XX 20-DEC-2002; 2002US-00325899.
XX
XX (EXPR-) EXPRESSION DIAGNOSTICS INC.
XX
XX Wohlgenuth J, Fry K, Woodward R, Ly N, Prentice J, Morris M;
XX Rosenberg S;
XX MPI; 2004-400724/37.
XX
XX Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver,
XX pancreas, pancreatic islet, lung, bone marrow or stem cell transplant
XX rejection, in an individual, comprises detecting the expression level of
XX the genes.
XX
XX Claim 58; SEQ ID NO 788; 1762pp; English.
XX
XX The present invention relates to diagnosing or monitoring transplant
XX rejection, e.g. cardiac or kidney transplant rejection, in an individual
XX comprising detecting the expression level of one or more genes. The
XX methods, system and kits are useful in diagnosing or monitoring
XX transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic
XX islet, lung, bone marrow or stem cell transplant rejection, in an
XX xenotransplant rejection or mechanical organ replacement rejection, in an
XX individual. The method is also useful in assessing the immune status of
XX an individual. The methods are also useful in diagnosing and monitoring
XX diseases that involve the immune system, e.g. rheumatoid arthritis,
XX lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or
XX viral, bacterial or fungal infection. The present sequence represents a
XX primer for a 50 mer oligonucleotide marker for diagnosis and monitoring
XX of allograft rejection and other disorders.
XX
XX Sequence 20 BP; 3 A; 3 C; 9 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.9%; Score 16.8; DB 1; Length 20;
XX Best Local Similarity 75.0%; Pred. No. 3.2e+02;
XX Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
XX
XX 148 UCCUCUCGAGGAGGACAC 167
XX DB 20 TCCTCTCCAGAGGACACAC 1
XX
XX RESULT 649
XX ABE77803
XX ID ABE77803 standard; DNA; 20 BP.
XX
XX ABE77803;
XX
XX 09-FEB-2006 (first entry)
XX
XX Human dopamine receptor D2 (DRD2) DNA oligonucleotide SEQ ID NO:1424.
XX
XX diagnosis; therapeutic; neurological disease; psychiatric disorder;
XX neuropsychologic disorder; dopamine receptor D2; DRD2; ss.
XX
XX OS Homo sapiens.
```


OS Synthetic.
XX
KW Key Location/Qualifiers
XX misc_feature 20..21
XX /tag= a
XX /label= misc_DNA
XX /note= "2 deoxynucleotide overhang"
XX
XX WO2004100990-A1.
XX
XX PD 25-NOV-2004.
XX
XX PF 19-MAY-2004; 2004WO-JP007145.
XX
XX PR 19-MAY-2003; 2003JP-00140685.
XX
XX PA (GENE-) GENE/CARE RES INST CO LTD.
XX
XX PI Takagi M, Shimamoto A, Furuchi Y, Sato A;
XX WPI; 2004-833899/82.
XX
XX DR Apoptosis inducing agent of cancer cell useful as anticancer agent,
XX PT comprises compound that suppresses expression of RecQ DNA helicase-family
XX PT gene/function of protein encoded by RecQ DNA helicase-family gene, as
XX PT active ingredient.
XX
XX Claim 10; SEQ ID NO 46; 262pp; Japanese.
XX
XX This invention describes a novel anticancer apoptosis inducing agent
XX which comprises (a) compound, which suppresses the double-stranded RNA
XX helicase-family gene, (b) DNA which expresses the double-stranded RNA
XX with RNA interfering (RNAi) effect with respect to RecQ DNA helicase-
XX family gene, or (c) a compound, which suppresses the function of protein
XX encoded by RecQ DNA helicase-family gene, as an active ingredient. The
XX invention also describes a method for screening for a candidate compound
XX with a protein encoded by RecQ DNA helicase-family gene. A compound,
XX which suppresses the expression of RecQ DNA helicase-family gene is a
XX transcription product or antisense nucleic acid of one part of RecQ DNA
XX helicase-family gene, or a nucleic acid which has ribozyme activity which
XX cleaves the transcription product of RecQ DNA helicase-family gene
XX specifically. It can also be a RecQ DNA helicase-family protein variant
XX which has dominant negative character with respect to the protein encoded
XX by RecQ DNA helicase-family gene, an antibody or a low molecular compound
XX coupled with the protein encoded by RecQ DNA helicase-family gene. The
XX RecQ DNA helicase-family gene is a WRN gene, BLM gene or RecQL gene. The
XX method of the invention is useful for manufacturing an anticancer agent
XX as a pharmaceutical composition. The novel agent is highly safe,
XX effective and does not cause any side effects when used as a
XX pharmaceutical. The products of the invention have cytostatic activity.
XX This sequence represents a double stranded siRNA (small interfering RNA)
XX molecule which is targeted to the RecQ1 gene.
XX
XX SQ Sequence 21 BP; 9 A; 3 C; 4 G; 2 T; 3 U; 0 Other;
XX
XX Query Match 0.9%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 55.0%; Pred. No. 3.5e+02;
XX Matches 11; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 657 AGAGUCGCAUUCAGUCC 676
XX |||||::|||::|||::|||
XX Db 20 AGAGTTTTCATTCACTTCC 1
XX
XX RESULT 657
XX AEA84953
XX ID AEA84953 strand; RNA; 21 BP.
XX
XX AC AEA84953;
XX
XX XX 11-AUG-2005 (first entry)
XX
XX DE Human lupus-related siRNA antisense strand #3403.

XX
XX KW Diagnosis; genetic marker; autoimmune disease;
XX KW systemic lupus erythematosus; lupus nephritis;
XX KW immunosuppressive; nephrotropic; antiinflammatory; dermatological; ss;
XX KW gene silencing; RNA interference; short interfering RNA; siRNA.
XX
XX OS Homo sapiens.
XX
XX PN WO2004076639-A2.
XX
XX PD 10-SEP-2004.
XX
XX PF 26-FEB-2004; 2004WO-US005655.
XX
XX PR 26-FEB-2003; 2003US-0449693P.
XX PR 26-FEB-2003; 2003US-0449753P.
XX PR 26-FEB-2003; 2003US-0449795P.
XX
XX PA (AMHP) WYETH.
XX PA (OTOO/) O'TOOLE M M.
XX PA (WEIL/) WEI L.
XX
XX PI O'toole MM, Wei L;
XX
XX DR WPI; 2004-662008/64.
XX
XX PT New pharmaceutical composition comprising a polypeptide encoded by a gene
XX PT that is differentially expressed in a pre-symptomatic lupus-affected or -
XX PT predisposed tissues, and a carrier, useful for treating lupus.
XX
XX PS Claim 17; SEQ ID NO 10266; 86pp; English.
XX
XX The invention relates to a pharmaceutical composition comprising a
XX carrier and at least one active component selected from a polypeptide
XX encoded by a gene that is differentially expressed in pre-symptomatic
XX lupus-affected or lupus-predisposed tissues as compared to disease-free
XX tissues, a variant of the polypeptide and a polynucleotide encoding the
XX polypeptide or variant. The invention also relates to detecting an
XX expression profile of at least one gene in a biological sample of a
XX subject and comparing the expression profile to a reference expression
XX profile of the gene to detect or monitor an autoimmune disease in a
XX subject, where the gene is differentially expressed in pre-symptomatic
XX lupus-affected or lupus-predisposed tissues as compared to disease-free
XX tissues, administering a therapeutically or prophylactically effective
XX amount of the pharmaceutical composition in a subject, preferably a human
XX who has or is predisposed to systemic lupus erythematosus or lupus
XX nephritis, contacting an agent with lupus-affected or lupus-predisposed
XX cells and comparing expression profiles or protein activities of at least
XX one gene in the cells before and after the contacting to determine if the
XX agent modulates expression or protein activity of at least one gene,
XX administering an agent to a lupus-affected or lupus-predisposed subject
XX and comparing expression profiles or protein activities of at least one
XX gene in the biological sample before and after the administering to
XX determine if the agent modulates expression or protein activity of at
XX least one gene in the subject, where the gene is differentially expressed
XX in lupus-affected or lupus-predisposed kidney tissues as compared to
XX disease-free kidney tissues. The pharmaceutical composition is useful for
XX diagnosing, treating and preventing autoimmune diseases such as lupus
XX nephritis and systemic lupus erythematosus. This sequence represents a
XX human lupus-related siRNA antisense strand of the invention. Note: The
XX sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 21 BP; 2 A; 3 C; 3 G; 0 T; 13 U; 0 Other;
XX
XX Query Match 0.9%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred. No. 3.5e+02;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 614 UGUUCUGCAUUCAGUCCU 633
XX |||||::|||::|||::|||
XX Db 1 UGUUCUGCAUUCAGUCCU 20

RESULT 658
AEA82719/C
ID AEA82719 standard; cDNA; 21 BP.
XX
AC AEA82719;
XX
DT 11-AUG-2005 (first entry)
XX
DE Human lupus-related siRNA target sequence #2659.
XX
RW Diagnosis; genetic marker; autoimmune disease;
KW systemic lupus erythematosus; lupus nephritis;
XX immunosuppressive; nephrotropic; antiinflammatory; dermatological, ss.
OS Homo sapiens.
PN WO2004076639-A2.
PD 10-SEP-2004.
PP 26-FEB-2004; 2004WO-US005655.
PR 26-FEB-2003; 2003US-0449693B.
PR 26-FEB-2003; 2003US-0449753P.
PR 26-FEB-2003; 2003US-0449795P.
XX
PA (AMHP / WYETH-
PA (OTCO) / O'TOOLE M. M.
PA (WEIL) / WEI L.
PI O'Loole MM, Wei L;
DR MPI; 2004-662008/64.
XX
XX
PT New pharmaceutical composition comprising a polypeptide encoded by a gene
PT that is differentially expressed in a pre-symptomatic lupus-affected or -
PT predisposed tissues, and a carrier, useful for treating lupus.
XX
PS Claim 17; SEQ ID NO 8032; 86bp; English.

The invention relates to a pharmaceutical composition comprising a carrier and at least one active component selected from a polypeptide encoded by a gene that is differentially expressed in pre-symptomatic lupus-affected or lupus-predisposed tissues as compared to disease-free tissues, a variant of the polypeptide and a polynucleotide encoding the polypeptide or variant. The invention also relates to detecting an expression profile of at least one gene in a biological sample of a subject and comparing the expression profile to a reference expression profile of the gene to detect or monitor an autoimmune disease in a subject, where the gene is differentially expressed in pre-symptomatic lupus-affected or lupus-predisposed tissues as compared to disease-free tissues, administering a therapeutically or prophylactically effective amount of the pharmaceutical composition in a subject, preferably a human who has or is predisposed to systemic lupus erythematosus or lupus nephritis, contacting an agent with lupus-affected or lupus-predisposed cells and comparing expression profiles or protein activities of at least one gene in the cells before and after the contacting to determine if the agent modulates expression or protein activity of at least one gene, administering an agent to a lupus-affected or lupus-predisposed subject and comparing expression profiles or protein activities of at least one gene in the biological sample before and after the administering to determine if the agent modulates expression or protein activity of at least one gene in the subject, where the gene is differentially expressed in lupus-affected or lupus-predisposed kidney tissues as compared to disease-free kidney tissues. The pharmaceutical composition is useful for diagnosing, treating and preventing autoimmune diseases such as lupus nephritis and systemic lupus erythematosus. This sequence represents a human lupus-related siRNA target sequence of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published/pct sequences.

XX	Sequence	21 BP; 12 A; 3 C; 4 G; 2 T; 0 U; 0 Other;	
XX	Query Match	0.9%; Score 16.8; DB 1; Length 21;	
XX	Best Local Similarity	40.0%; Pred. No. 3.5e+02;	
XX	Matches	8; Conservative 10; Mismatches 2; Indels 0; Gaps 0;	
QY	614 UGUCUGGCAUACUUGU 633		
DB	21 TGTTCGTCAATTAATTGT 2		
XX	RESULT 659		
XX	AEA84951/C		
XX	ID AEA84951 standard; cDNA; 21 BP.		
XX	AEA84951;		
XX	AC		
XX	DT		
XX	11-AUG-2005 (first entry)		
XX	DE		
XX	Human lupus-related siRNA target sequence #3403.		
XX	KM		
XX	Diagnosis; genetic marker; autoimmune disease;		
XX	KW		
XX	systemic lupus erythematosus; lupus nephritis;		
XX	KW		
XX	immunosuppressive; nephrotropic; antiinflammatory; dermatological; ss.		
XX	OS		
XX	Homo sapiens.		
XX	PM		
XX	WO2004076639-A2.		
XX	PD		
XX	10-SEP-2004.		
XX	PF		
XX	26-FEB-2004; 2004WO-US005655.		
XX	PR		
XX	26-FEB-2003; 2003US-0449693P.		
XX	PR		
XX	26-FEB-2003; 2003US-0449753P.		
XX	PR		
XX	26-FEB-2003; 2003US-0449793P.		
XX	PA		
XX	(AMMP) WYETH.		
XX	(OTOO//) O'TOOLE M M.		
XX	PA		
XX	(WEIL//) WEI L.		
XX	PI		
XX	O'toole MM, Wei L;		
XX	DR		
XX	WPI; 2004-662008/64.		
XX	PT		
XX	New pharmaceutical composition comprising a polypeptide encoded by a gene		
XX	PT		
XX	that is differentially expressed in a pre-symptomatic lupus-affected or -		
XX	PT		
XX	predisposed tissues, and a carrier, useful for treating lupus.		
XX	PS		
XX	Claim 17; SEQ ID NO 10264; 86pp; English.		
XX	CC		
XX	The invention relates to a pharmaceutical composition comprising a		
XX	CC		
XX	carrier and at least one active component selected from a polypeptide		
XX	CC		
XX	encoded by a gene that is differentially expressed in pre-symptomatic		
XX	CC		
XX	lupus-affected or lupus-predisposed tissues as compared to disease-free		
XX	CC		
XX	tissues, a variant of the polypeptide and a polynucleotide encoding the		
XX	CC		
XX	polypeptide or variant. The invention also relates to detecting an		
XX	CC		
XX	expression profile of at least one gene in a biological sample of a		
XX	CC		
XX	subject and comparing the expression profile to a reference expression		
XX	CC		
XX	profile of the gene to detect or monitor an autoimmune disease in a		
XX	CC		
XX	subject, where the gene is differentially expressed in pre-symptomatic		
XX	CC		
XX	lupus-affected or lupus-predisposed tissues as compared to disease-free		
XX	CC		
XX	tissues, administering a therapeutically or prophylactically effective		
XX	CC		
XX	amount of the pharmaceutical composition in a subject, preferably a human		
XX	CC		
XX	who has or is predisposed to systemic lupus erythematosus or lupus		
XX	CC		
XX	nephritis, contacting an agent with lupus-affected or lupus-predisposed		
XX	CC		
XX	cells and comparing expression profiles or protein activities of at least		
XX	CC		
XX	one gene in the cells before and after the contacting to determine if the		
XX	CC		
XX	agent modulates expression or protein activity of at least one gene,		
XX	CC		
XX	administering an agent to a lupus-affected or lupus-predisposed subject		
XX	CC		
XX	and comparing expression profiles or protein activities of at least one		
XX	CC		
XX	gene in the biological sample before and after the administering to		
XX	CC		

CC determine if the agent modulates expression or protein activity of at
CC least one gene in the subject, where the gene is differentially expressed
CC in lupus-affected or lupus-predisposed kidney tissues as compared to
CC disease-free kidney tissues. The pharmaceutical composition is useful for
CC diagnosing, treating and preventing autoimmune diseases such as lupus
CC nephritis and systemic lupus erythematosus. This sequence represents a
CC human lupus-related siRNA target sequence of the invention. Note: The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_poc_sequences.

CC Sequence 21 BP; 12 A; 3 C; 4 G; 2 T; 0 U; 0 Other;

CC Query Match 0.9%; Score 16.8; DB 1; Length 21;

CC Best Local Similarity 40.0%; Pred. No. 3.5e+02; Indels 0; Gaps 0;

CC Matches 8; Conservative 10; Mismatches 2; Indels 0; Gaps 0;

QY 614 UGUUCUGCAUACUUGUU 633

Db 21 TGTTCGTCAATTCATTGTT 2

RESULT 660

AEA82721

XX AEA82721 standard; RNA; 21 BP.

XX AEA82721;

XX 11-AUG-2005 (first entry)

XX Human lupus-related siRNA antisense strand #2659.

XX Diagnosis; genetic marker; autoimmune disease;

XX systemic lupus erythematosus; lupus nephritis;

XX immunosuppressive; nephrotropic; antiinflammatory; dermatological; ss;

XX gene silencing; RNA interference; short interfering RNA; siRNA.

XX Homo sapiens.

XX WO2004076639-A2.

XX 10-SEP-2004.

XX 26-FEB-2004; 2004WO-US005655.

XX 26-FEB-2003; 2003US-0449693P.

XX 26-FEB-2003; 2003US-0449753P.

XX 26-FEB-2003; 2003US-0449795P.

XX (AMHP) WYETH.

XX (OTOO/) O'TOOLE M M.

XX (WEIL/) WEI L.

XX O'Toole MM, Wei L;

XX WPI; 2004-662008/64.

XX New pharmaceutical composition comprising a polypeptide encoded by a gene

XX that is differentially expressed in a pre-symptomatic lupus-affected or -

XX predisposed tissues, and a carrier, useful for treating lupus.

XX Claim 17; SEQ ID NO 8034; 86pp; English.

XX The invention relates to a pharmaceutical composition comprising a

XX carrier and at least one active component selected from a polypeptide

XX encoded by a gene that is differentially expressed in pre-symptomatic

XX lupus-affected or lupus-predisposed tissues as compared to disease-free

XX tissues, a variant of the polypeptide and a polynucleotide encoding the

XX polypeptide or variant. The invention also relates to detecting an

XX expression profile of at least one gene in a biological sample of a

XX subject and comparing the expression profile to a reference expression

XX profile of the gene to detect or monitor an autoimmune disease in a

XX subject, where the gene is differentially expressed in pre-symptomatic

CC lupus-affected or lupus-predisposed tissues as compared to disease-free
CC tissues; administering a therapeutically or prophylactically effective
CC amount of the pharmaceutical composition in a subject, preferably a human
CC who has or is predisposed to systemic lupus erythematosus or lupus
CC nephritis, contacting an agent with lupus-affected or lupus-predisposed
CC cells and comparing expression profiles or protein activities of at least
CC one gene in the cells before and after the contacting to determine if the
CC agent modulates expression or protein activity of at least one gene,
CC administering an agent to a lupus-affected or lupus-predisposed subject
CC and comparing expression profiles or protein activities of at least one
CC gene in the biological sample before and after the administering to
CC determine if the agent modulates expression or protein activity of at
CC least one gene in the subject, where the gene is differentially expressed
CC in lupus-affected or lupus-predisposed kidney tissues as compared to
CC disease-free kidney tissues. The pharmaceutical composition is useful for
CC diagnosing, treating and preventing autoimmune diseases such as lupus
CC nephritis and systemic lupus erythematosus. This sequence represents a
CC human lupus-related siRNA antisense strand of the invention. Note: The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_poc_sequences.

CC Sequence 21 BP; 2 A; 3 C; 3 G; 0 T; 13 U; 0 Other;

CC Query Match 0.9%; Score 16.8; DB 1; Length 21;

CC Best Local Similarity 90.0%; Pred. No. 3.5e+02; Indels 0; Gaps 0;

CC Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 614 UGUUCUGCAUACUUGUU 633

Db 1 UGUUCUGCAUACUUGUU 20

RESULT 661

XX AED17042/c

XX AED17042 standard; DNA; 21 BP.

XX AED17042;

XX 15-DEC-2005 (first entry)

XX Human anti-clusterin antisense oligonucleotide SEQ ID NO 5.

XX Cytostatic; antisense therapy; gene expression; pharmaceutical; cancer;

XX neoplasm; antisense oligonucleotide; gene silencing; ss.

XX Homo sapiens.

XX WO2005094899-A1.

XX 13-OCT-2005.

XX 04-APR-2005; 2005WO-CA000531.

XX 02-APR-2004; 2004US-0559324P.

XX 02-FEB-2005; 2005US-0649327P.

XX (YBR-) UNIV BRITISH COLUMBIA.

XX Gleave ME, Cormack SD;

XX WPI; 2005-725416/74.

XX Providing antisense therapy that reduces expression of clusterin.

XX comprising administering an anti-clusterin antisense oligonucleotide to a

XX patient in need of treatment for cancer expressing clusterin.

XX Claim 6; SEQ ID NO 5; 37pp; English.

XX The invention describes providing (M1) antisense therapy, which reduces

XX the expression of clusterin to provide therapeutic benefits in the

XX treatment of cancer. The method comprises administering 40-640 mg of anti

XX -clusterin antisense oligonucleotide to a patient in need of treatment

CC for a cancer expressing clusterin. Also described are: an antisense
CC containing pharmaceutical composition (I) packaged in dosage unit form,
CC comprising an anti-clusterin antisense oligonucleotide, where the amount
CC of anti-clusterin antisense oligonucleotide in each dosage unit ranges
CC from 40-640 mg, and use of anti-clusterin antisense (II) in the
CC manufacture of a medicament for the treatment of cancer, where the
CC medicament is formulated to deliver a dosage of 40-640 mg of the
CC antisense to a patient. (M1) Is useful for providing antisense therapy
CC for treatment of cancer chosen from prostate cancer, bladder cancer,
CC ovarian cancer, lung cancer (preferably non-small cell lung cancer),
CC renal cancer, melanoma, pancreatic cancer, metastases and cancer with
CC lymph node involvement, in a patient. (II) Is useful in the manufacture
CC of a medicament for the treatment of cancer. This sequence represents an
CC anti-clusterin antisense oligonucleotide.

SQ Sequence 21 BP; 6 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 60.0%; Pred. No. 3.se+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1664 UCAGAGUGGUGGUGGUGG 1683

Db 20 TGAAGATCCTGCTGCTGTC 1

RESULT 662

AEF52902/C

ID AEF52902 standard; RNA; 21 BP.

AC AEF52902;

DT 23-MAR-2006 (first entry)

DE Human PLOD2 gene specific siRNA #1, antisense strand.

KW Translation; fibrosis; antiinflammatory; inflammation; DNA-RNA hybrid;

KW siRNA; short interfering RNA; RNA interference; gene silencing;

KW PLOD2 gene; ss.

OS Homo sapiens.

OS Synthetic.

Key Location/Qualifiers
misc_feature 20..21
/*tag= a

FT /note= "Deoxythymidine"

FT US2006029636-A1.

PN 09-FEB-2006.

PF 18-JUL-2005; 2005US-00183485.

PR 21-JUL-2004; 2004US-0589700P.

PA (MEDT) MEDTRONIC INC.

PI Hendriks M;

DR WPI; 2006-144857/15.

PT Medical device useful for reducing fibrotic tissue formation comprises a
PT substrate, and active agent associated with the substrate.

PS Example 2; SEQ ID NO 2; 27bp; English.

CC The present invention relates to medical device useful for reducing
CC fibrotic tissue formation. The invention also provides a method for
CC delivering an active agent to a subject. The method involves providing a
CC medical device that includes a substrate and an active agent suppresses
CC the production and/or activity of telopeptide lysyl hydroxylase (TLH)
CC enzyme in collagen-producing cells associated with the substrate. The

CC substrate comprises a polynucleotide delivery matrix (DNA encoding
CC antisense, ribozyme, siRNA molecules) that interfere with a PLOD2 gene
CC and inhibit the translation of a TLH enzyme. The present sequence is a
CC human PLOD2 gene specific antisense siRNA.

SQ Sequence 21 BP; 4 A; 7 C; 3 G; 2 T; 5 U; 0 Other;

Query Match 0.9%; Score 16.8; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 3.se+02;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1441 AUGUCCUGGUGGUGGUGG 1460

Db 20 AGGTCCTTGCTCAAGAGAA 1

RESULT 663

AEF42813/C

ID AEF42813 standard; RNA; 21 BP.

AC AEF42813;

DT 23-MAR-2006 (first entry)

DE Human PLOD2 antisense siRNA #1 oligonucleotide SEQ ID NO:2.

KW siRNA; short interfering RNA; RNA interference; gene silencing; PLOD2;

KW telopeptide lysyl hydroxylase;

KW procollagen-lysine 2-oxoglutarate 5-dioxygenase 2; antiinflammatory;

KW fibrosis; DNA-RNA hybrid; ss.

OS Homo sapiens.

OS Synthetic.

Key Location/Qualifiers
misc_feature 20..21
/*tag= a
/label= misc DNA

FT /note= "deoxythymidines"

FT US2006030538-A1.

PN 09-FEB-2006.

PF 18-JUL-2005; 2005US-00183486.

PR 21-JUL-2004; 2004US-0589724P.

PA (MEDT) MEDTRONIC INC.

PI Hendriks M;

DR WPI; 2006-154152/16.

PT Reducing or preventing fibrotic tissue formation in a subject, comprises
PT delivering a polynucleotide that suppresses production and/or activity of
PT telopeptide lysyl hydroxylase enzyme.

PS Example 1; SEQ ID NO 2; 26bp; English.

CC The invention relates to a method (M1) for reducing or preventing
CC fibrotic tissue formation in a subject. (M1) comprises delivering a
CC polynucleotide that suppresses telopeptide lysyl hydroxylase (TLH) enzyme
CC production/activity in collagen-producing cells, where the polynucleotide
CC has a small interfering RNA (siRNA) molecule or DNA encoding siRNA that
CC interferes with the PLOD2 (telopeptide lysyl hydroxylase) gene and
CC inhibits TLH enzyme translation, or interferes with a gene encoding a
CC protein in production/processing of the enzyme. Also described is a kit
CC comprising components for the formation of a polynucleotide delivery
CC matrix. (M1) is useful for reducing or preventing fibrotic tissue
CC formation in subject, where the fibrotic tissue formation is associated
CC with heart rhythm disorder, heart failure, valve disease, vascular
CC disease, diabetes, neurological diseases and disorders or surgery, and

Query Match 0.9%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 72.2%; Pred. No. 3.6e+02;
 Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
 QY 1015 AACGAGGCTGCTGCTGCC 1032
 DB 1 AACGAGGCTGCTGCTGCC 18

RESULT 666

AA235086
 ID AA235086 standard; DNA; 20 BP.

AA235086;
 AC

13-MAR-2000 (first entry)
 DT

Herpesvirus entry protein B (HvEB) PCR primer PPR2A8.
 DE

Herpesvirus entry protein B; HvEB; tumour necrosis factor receptor;
 KW alphaherpesvirus; infection; therapy; human; PCR; primer; ss.
 XX

Synthetic.
 OS Homo sapiens.
 XX

WO9963063-A1.
 PN

09-DEC-1999.
 PD

02-JUN-1999; 99WO-US012235.
 PF

03-JUN-1998; 98US-0087862P.
 PR

(NOUN) UNIV NORTHWESTERN.
 PA (UNRE-) UNIV PENNSYLVANIA.
 XX

Spear PG, Warner MS, Garghty RG, Martinez WM, Montgomery RI;
 PI Cohen GH, Eisenberg RJ, Whitbeck CJ, Krumenacher C;
 XX MPI; 2000-097325/08.
 DR

Novel proteins used to prevent viral infection and to identify other
 PT inhibitors.
 XX

Example 1; Page 57; 14pp; English.
 PS

Primer PPR2A8 was used in the PCR amplification of herpesvirus entry
 CC protein B (HvEB) cDNA (see also AA235084). HvEB is a novel member of the
 CC human tumour necrosis factor receptor family that mediates entry of an
 CC alphaherpesvirus (AHV) into cells. Cellular herpesvirus entry proteins
 CC (I) such as HvEB, their mutants, homologues, derivatives, variants and
 CC active fragments are claimed, as are recombinant cells (especially CHO,
 CC murine melanoma, swine testes), vectors, and anti-cellular herpesvirus
 CC protein compounds (II). Suitable (II) include antisense oligonucleotides,
 CC antibodies specific for (II), peptides and peptidomimetics. Methods of
 CC identifying (II), of inhibiting entry of an AHV into a cell using (II),
 CC and of treating an AHV infection in an animal, especially a human, using
 CC (II) are also claimed
 XX

Sequence 20 BP; 8 A; 6 C; 6 G; 0 T; 0 U; 0 Other;
 SQ

Query Match 0.9%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 94.4%; Pred. No. 3.6e+02;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1708 AAGCAGGAGUACCGACGAG 1725
 DB 3 AAGCAGGAGUACCGACGAG 20

RESULT 667

AE77799
 ID AE77799 standard; DNA; 20 BP.

XX ABE77799;
 AC
 XX
 DT 09-FEB-2006 (first entry)
 DE Human dopamine receptor D2 (DRD2) DNA oligonucleotide SEQ ID NO:1420.
 XX
 KW Diagnosis; therapeutic; neurological disease; psychiatric disorder;
 KW neuropsychologic disorder; dopamine receptor D2; DRD2; ss.
 XX

Homo sapiens.
 OS

WO2005118843-A1.
 PN

15-DEC-2005.
 PD

01-JUN-2005; 2005WO-AU000775.
 PF

01-JUN-2004; 2004AU-00902919.
 PR

(UNQU-) UNIV QUEENSLAND TECHNOLOGY.
 PA

Morris CP, Van Daal A, Swagell CD, Lawford BR, Young RM;
 PI MPI; 2006-047555/05.
 DR

Identifying genetic profile associated with a neurological, psychiatric,
 PT or psychological condition, comprises screening individuals for a
 PT polymorphism in a genetic locus comprising the dopamine receptor D2
 (DRD2) gene.
 XX

Claim 31; SEQ ID NO 1420; 634pp; English.
 PS

The invention relates to a method of identifying a genetic profile
 CC associated with a neurological, psychiatric or psychological condition,
 CC phenotype or state including a sub-threshold neurological, psychiatric or
 CC psychological condition, phenotype or state in an individual, comprising
 CC screening individuals for a polymorphism in a genetic locus comprising
 CC the dopamine receptor D2 (DRD2) gene. The invention also relates to a
 CC genetic mutation providing a genetic marker for a neurological,
 CC psychiatric, or psychological condition, state or phenotype in an
 CC individual, where the presence of a 957C polymorphism is indicative of a
 CC predisposition to developing a neurological, psychiatric or psychological
 CC condition, phenotype or state. The compositions and methods are useful
 CC for identifying a genetic profile associated with a neurological,
 CC psychiatric or psychological condition. The method enables clinicians to
 CC make a genetic-based diagnosis of a neurological, psychiatric or
 CC psychological condition and can thereby implement treatment or
 CC preventative or symptom-ameliorating protocols to reduce the adverse
 CC consequences of the condition. This sequence represents a human dopamine
 CC receptor D2 (DRD2) DNA oligonucleotide used in the scope of the
 CC invention.
 XX

Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
 SQ

Query Match 0.9%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 83.3%; Pred. No. 3.6e+02;
 Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1604 UCAACGACCGGUAACC 1621
 DB 3 TCACGACCGCCGGAACC 20

RESULT 668

AB281124
 ID AB281124 standard; DNA; 20 BP.
 XX

AB281124;
 AC

10-MAY-2003 (first entry)
 DT

Dual specific phosphatase 9 phosphorothioate oligonucleotide SEQ:22.
 DE

[illegible]

RESULT 659
ABA81947/C
ID ABA81947 standard; DNA; 19 BP.
XX
AC ABA81947;
XX
DT 25-JAN-2002 (first entry)
DE Rat G-protein serotonin receptor capture oligonucleotide HTR7.
XX
XX Microorganism detection; capture oligonucleotide; probe; cancer; biochip;
KM Polymorphism detection; genetic disease diagnosis; microarray; ss.
XX
OS Rattus sp.
PN WO200177372-A2.
PD 18-OCT-2001.
PF 26-MAR-2001; 2001WO-BE000053.
PR 24-MAR-2000; 2000EP-00870055.
PR 15-SEP-2000; 2000EP-00870204.
XX
PA (UYN0-) UNIV NOTRE-DAME DE LA PAIX.
XX
PI Remacle J, Hamels S, Zammatteo N, Lockman L, Dufour S;
PI Alexandre I, De Jongueville F;
DR WPI; 2002-010921/01.
PT Identifying or quantifying organisms or genes, useful e.g. for diagnosis,
PT by detecting specific nucleotide sequences present among several
PT homologous sequences.
XX
PS Example 12; Page 40; 56pp; English.
XX
CC The present invention provides a method of identifying or quantitating a
CC microorganism in a sample by detecting its nucleotide sequence from
CC amongst homologous sequences. The method can be used to detect
CC microorganisms and polymorphisms, and to diagnose genetic diseases
CC including cancer. The present sequence is a capture oligonucleotide used
CC in the exemplification of the invention
SQ Sequence 19 BP; 2 A; 3 C; 9 G; 5 T; 0 U; 0 Other;

Query Match 0.9%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 3.8e+02;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 510 CACGAGCGCCGCACAGUAC 528
||| | | : ||| : ||
DB 19 CACGAGACCCTCACGTAC 1

RESULT 670
ADH01514/C
ID ADH01514 standard; RNA; 19 BP.
XX
AC ADH01514;
XX
DT 11-MAR-2004 (first entry)
DE Protein tyrosine phosphatase siRNA sequence. SEQ ID NO 126.
XX
XX small interfering RNA; siRNA; protein tyrosine phosphatase; PTP; PTPB;
KW insulin receptor protein phosphorylation; Jak2; antidiabetic; anorectic;
KW antiinflammatory; neuroprotective; cytostatic; immunosuppressive;
KW antimicrobial; gene therapy; ss; siRNA.
XX
OS Unidentified.